ELECTRICAL GENERAL NOTES

- . CONTRACTOR SHALL APPLY FOR ALL PERMITS AND INSPECTION REQUIRED BY LEGAL AUTHORITIES
- ALL WORKS AND MATERIALS MUST COMPLY WITH THE LATEST EDITION OF CEC AND CEnC AND MOST STRINGENT APPLICABLE CODE OR REGULATION
- CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR ANY ADDITIONAL COSTS FOR MATERIAL OR LABOR TO COMPLY WITH THESE CODES OR REGULATIONS.
- CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR THE CONDITION OF THE PREMISES ON WHICH THE WORK IS PERFORMED AND FOR THE SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE CONTRACT.
- ALL ELECTRICAL EQUIPMENT AND MATERIALS SHALL BE LISTED, LABELED AND INSTALLED PER RECOGNIZED ELECTRICAL TESTING LABORATORY OR AGENCY.
- ALL WORK SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE BY OWNER.
- DESIGN DRAWINGS ARE DIAGRAMMATIC ONLY AND SHALL BE FOLLOWED AS CLOSELY AS ACTUAL CONSTRUCTION CONDITIONS WILL PERMIT.
- NOTHING ON THIS DESIGN DRAWINGS SHALL BE DEEMED AS TO VIOLATE THE LATEST AND MOST STRINGENT APPLICABLE CODES OR REGULATIONS.
- ANY ERROR, OMISSION OR DESIGN DISCREPANCY ON THE PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE ELECTRICAL ENGINEER FOR CLARIFICATION OR CORRECTION DURING BIDDING PROCESS.
- ALL OPENINGS AROUND ELECTRICAL PENETRATIONS THRU FIRE RESISTANCE RATED WALLS, PARTITIONS, FLOORS OR CEILINGS SHALL BE FIRE STOPPED USING APPROVED METHODS AS DETERMINED BY COPE OR REGULATION
- 11. ITEMS INDICATES ON THESE PLANS SHALL BE FURNISHED, INSTALLED AND CONNECTED WITH ALL REQUIRED ACCESSORIES AND PERIPHERALS EVEN IF NOT INDICATED FOR A COMPLETE FUNCTIONAL AND OPERATIONAL SYSTEM, THE INFORMATION GIVEN IS NOT LIMITED TO EXACT LOCATION AND POINT OF CONNECTION AND THE NUMBER OF CONNECTIONS, AND THE CONNECTIONS, AND THE CONDINATION WITH OTHER TRADES.
- ALL GROUNDING SHALL BE IN FULL COMPLIANCE WITH CALIFORNIA ELECTRICAL CODE. INCOMING SERVICE SHALL BE PER UTILITY GROUNDING COMPANY REQUIREMENT.
- UNDERGROUND CONDUITS SHALL BE SCHEDULE 40 PVC WITH SCHEDULE 60 PVC BENDS AND STEEL RISERS. ALL UNDERGROUND PVC CONDUITS SHALL CONTAIN A GROUND CONDUCTOR, AND SHALL BE SIZED PER CODE REQUIREMENT.
- 14. ALL CIRCUIT BREAKERS IN PANELBOARDS SHALL BE BOLT-ON TYPE, NO PLUG-IN TYPE IS
- 15. ALL FUSED DISCONNECTS SHALL BE FUSED PER NAMEPLATE UNLESS NOTED.
- CONTRACTOR SHALL SUBMIT CATALOG CUTS OF MAIN SWITCH BOARDS BEFORE PLACING ORDERS AND PURCHASE.
- ALL CONDUCTORS SHALL BE COPPER TYPE THW, THWN, XHHW, THHN 600V INSULATION UNLESS OTHERWISE NOTED.
- 18. ALL WIRING DEVICES SHALL BE SPECIFICATION GRADE
- ALL CONDUITS SHALL BE RIGID CONDUIT OR E.M.T., CONDUIT SHALL BE SUPPORTED ACCORDING TO CODE, ALL EMPTY CONDUITS SHALL INCLUDE PULL WIRE.
- 20. FLEXIBLE CONDUITS SHALL BE USED FOR FINAL CONNECTION TO MOTORS AND OTHER VIBRATING EQUIPMENT. EXPANSION COUPLINGS SHALL BE USED AT BUILDING EXPANSION JOINTS. (CONTRACTOR TO INSTALL FLEXIBLE CONDUIT WHERE FLEXIBILITY TO EQUIPMENT OR LOAD IS REQUIRED. COMPLY WITH CEC, CEnC AND BUILDING DESIGN CRITERIA FOR FURTHER REQUIREMENT).
- NON METALLIC BUSHINGS OR INSULATED METALLIC BUSHINGS SHALL BE PROVIDED FOR ALL CONDUIT TERMINATION.
- 22. CONTRACTOR SHALL COORDINATE AND VERIFY MECHANICAL EQUIPMENT CONTROL AND WIRING REQUIREMENT WITH MECHANICAL CONTRACTOR BEFORE CONSTRUCTION,
- EACH LUMINAIRE CUT SHEET AND APPROVED EQUAL SHALL BE SUBMITTED TO ARCHITECT 48.
- PROVIDE ILLUMINATED EXIT SIGNS AS REQUIRED WITH SELF CONTAINED EMERGENCY BATTERY PACK AS ACCEPTED BY THE FIRE MARSHAL.
- 25. IT IS THE INTENTION OF THE PLANS AND SPECIFICATIONS TO COVER ALL THINGS REQUIRED TO MAKE A COMPLETE AND OPERATIVE SYSTEM. CONTRACTOR SHALL FURNISH ALL LABOR MATERIALS, EQUIPMENT, OR MISCELLANEOUS SERVICE REQUIRED TO ACCOMPLISH THIS RESULT.
- 26. CONTRACTOR SHALL BID THE PROJECT AS INDICATED AND SPECIFIED ON THE DRAWINGS. WHEN SUBSTITUTING MATERIALS OR EQUIPMENT OTHER THAN AS SPECIFIED ON THE DRAWINGS, CONTRACTOR SHALL SUBMIT CATALOG CUTS AND AMOUNT OF CREDIT FOR SUBSTITUTION TO BID FOR APPROVAL
- ALL NOTES AND SCHEDULES LISTED ON DRAWINGS OF OTHER SECTIONS OF THIS
 PROJECT WITH REFERENCE TO ELECTRICAL CONTRACTOR OR ELECTRICIAN APPLY TO
 THIS SECTION OF CONTRACT.
- 28. ALL ELECTRICAL WORK NOTED ON AC AND PLUMBING DRAWINGS TO BE DONE UNDER THIS SECTION.

- 29. SUBMIT 4 COPIES OF SHOP DRAWINGS FOR APPROVAL WITHIN 35 DAYS OF AWARD OF CONTRACT. CONTRACTOR SHALL VERIEY DIMENSIONS OF EQUIPMENT AND MAKE SURE THEY COMPLY WITH ALL APPLICABLE CODE REQUIREMENTS RELATING TO CLEAR WORK SPACE AROUND EQUIPMENT PRIOR TO SUBMITTING SHOP DRAWINGS.
- SUBMIT 4 COPIES OF MATERIAL LIST FOR APPROVAL WITHIN 35 DAYS OF AWARD OF THE CONTRACT. THE RIGHT IS RESERVED TO SUBMITTAL OF ANY SAMPLES OF FURNISHED MATERIAL. IF DEEMED NECESSARY BY THE OWNER.
- SUBSTITUTION OF ANY MATERIAL OR EQUIPMENT SHALL BE APPROVED BY ARCHITECT BEFORE INSTALLATION.
- BEFORE FINAL ACCEPTANCE OF WORK CONTRACTOR IS TO INSURE ALL EQUIPMENT, SYSTEMS ARE INSTALLED AND FUNCTIONING PROPERLY BY PERFORMING REQUIRED FIELD TESTS
- 33. THIRD PARTY CERTIFICATION: ALL PACKAGED EQUIPMENT SHALL BE BY INDEPENDENT THIRD PARTY LABELED AS A SYSTEM FOR IT'S INTENDED USE BY A NATIONAL RECOGNIZED TESTING LABORATORY (INRTL) IN ACCORDANCE WITH OSHA FEDERAL REGULATIONS 29CFR1910.303 AND .399, AS WELL AS NFPA PAMPHLET #70, CALIFORNIA ELECTRIC CODE (CEC). ARTICLE 90-7
- EXTEND MIN 2" TELEPHONE CONDUIT TO TELEPHONE BACKBOARD UNLESS NOTED OTHERWISE.
- AS PER CEC, APPROPRIATE CONDUIT AND WIRE TYPE SHALL BE USED FOR WET LOCATIONS, HAZARDOUS LOCATIONS, CORROSIVE ENVIRONMENT OR SIMILAR SPECIAL CONDITIONS
- 36. ELECTRICAL CONTRACTOR SHALL FURNISH A COMPLETE TYPE WRITTEN IDENTIFICATION DIRECTORY CARD IN EACH ELECTRICAL PANEL IDENTIFYING ALL BRANCH CIRCUITS.
- 37. ALL EXPOSED WIRING SHALL BE INSTALLED IN CONDUIT. CONDUIT SHALL BE GALVANIZED STEEL, RIGID HEAVY WALL OR ELECTRICAL METALLIC TUBING. WATERTIGHT FITTINGS SHALL BE USED WHERE REQUIRED BY CODE. ROMEX AND BX CABLE ARE PROHIBITED.
- IT IS THE ELECTRICAL CONTRACTORS RESPONSIBILITY TO PROPERLY BALANCE ALL
 CIRCUITS BETWEEN PHASES OF THE SYSTEM. REGARDLESS OF CIRCUITING INDICATED.
- 39. FLEXIBLE METAL CONDUIT SHALL BE USED ONLY FOR CONNECTIONS INSIDE CASEWORK AND AS THE FINAL CONNECTION SIX FEET (6'-0") MAXIMUM LENGTH, MINIMUM ONE-HALF INCH (1/2") ELECTRICAL TRADE SIZE TO RECESSED FIXTURES, MOTORS, AND EQUIPMENT THAT MAY GENERATE VIBRATION THROUGH THE CONDUIT SYSTEM.
- 40 A NEUTRAL FAULT TEST IS REQUIRED PRIOR TO ENERGIZING CIRCUITS.
- BX, ROMEX, AC(BX) OR MITYPE WIRING WILL NOT BE ALLOWED. ALUMINUM CONDUCTORS
 ARE NOT PERMITTED.
- EXPOSED CONDUITS SHALL BE INSTALLED IN STRAIGHT LINES, PARALLEL WITH OR AT RIGHT ANGLES TO THE BUILDING STRUCTURE. DO NOT LOOP EXCESS FLEXIBLE CONDUIT IN CEILING SPACE.
- PROVIDE SWITCH AND RECEPTACLE HEIGHTS PER STATE OF CALIFORNIA ACCESSIBLE REQUIREMENTS.
- 44. THE ISSUANCE OF A PERMIT SHALL NOT PREVENT THE BUILDING OFFICIAL FROM REQUIRING THE CORRECTION OF ERRORS ON THESE PLANS OR FROM PREVENTING ANY VIOLATION OF THE CODES ADDOPTED BY THE CITY, RELEVANT LAWS, ORDINANCES, RULES AND/OR PEGILI ATIONS
- FOR FIRE RATED WALL/CEILING PENETRATION AND/OR MEMBRANE PENETRATION, COMPLETE NRTL CLASSIFICATION SHEETS SHALL BE PROVIDED TO THE INSPECTOR AT THE TIME OF INSPECTION
- 46. SUBMIT TO POWER COMPANY A WRITTEN NOTICE OF THE EXTENT AND NATURE OF ANY MATERIAL CHANGE IN THE SIZE, CHARACTER, OR EXTENT OF THE UTILIZING EQUIPMENT OR OPERATIONS FOR WHICH THE COMPANY IS SUPPLYING ELECTRICAL SERVICE BEFORE MAKING ANY SUCH CHANGE.
- THE UNGROUNDED AND GROUNDED CONDUCTORS OF EACH MULTIWIRE BRANCH CIRCUIT SHALL BE GROUPED BY WIRE TIES OR SIMILAR MEANS IN AT LEAST ONE LOCATION WITHIN THE PANELBOARD OR OTHER POINT OF ORIGINATION. (210.4(D)).
- 48. EACH MULTIWIRE BRANCH CIRCUIT SHALL BE PROVIDED WITH A MEANS THAT WILL SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS AT THE POINT WHERE THE BRANCH CIRCUIT ORIGINATES. (210.4)
- 49. PROVIDE SEPARATE SUBMITTAL, OBTAIN AL REQUIRED PERMITS, INSPECTIONS AND APPROVALS FOR ALL FIRE ALARM SYSTEM INSTALLATIONS AND/OR MODIFICATIONS FROM THE FIRE DEPARTMENT AND THE BUILDING DEPARTMENTS
- PROVIDE SEPARATE SUBMITTAL FOR ALL ELECTRICAL SUBSYSTEMS WITH POWER SUPPLY(S) OF MORE THAN 50VA AND /OR 24V. (E.G. SECURITY, CARD READERS, TELCO/DATA, PA AUDIO/VISUAL NURSE CALL, HVAC AND REFRIGERATION CONTROLS, ETC.)
- 51. ALL INSTALLED MATERIALS AND EQUIPMENT SHALL BE LISTED U.L NRTL OR LISTED AND APPROVED BY THE CITY APPROVED TESTING LABORATORY.
- 52. PROVIDE ARC FLASH LABELING AS REQUIRED PER (110.16)
- 53. ALL NEW OVERCURRENT DEVICES INSTALLED IN EXISTING PANELS/SWITCHBOARDS SHALL MATCH THE MAKE, MODEL AND INTERRUPTING CAPACITY OF THE EXSITING OVERCURRENT DEVICES.
- CONDUITS OR RACEWAY THROUGH WHICH MOISTURE MAY CONTACT LIVE PARTS SHALL BE SEALED OR PLUGGED AT EITHER OR BOTH ENDS.

FIRE ALARM N

IND PROPERTY OF

1. ALL FIRE ALARM SYSTEMS SHALL BE PROVIDED BY OTHERS

2. INSTALLATION OF FIRE ALARM SYSTEM SHALL BE UNDER A SEPARATE PERMIT.

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- REFER TO MECHANICAL PLANS FOR EXACT LOCATION OF EACH EQUIPMENT.
- PROVIDE ALL HVAC EQUIPMENT, CONTROLS, CONDUITS, WIRES AND ELECTRICAL CIRCUIT
 CONNECTIONS. VERIFY AND COORDINATE ALL REQUIREMENT WITH THE MECHANICAL DRAWINGS AND
 EQUIPMENT SUBMITTAL.

ELECTRICAL SEISMIC NOTES

- 1. PROVIDE COMPLETE SEISMIC ANCHORAGE AND BRACING FOR ALL ELECTRICAL EQUIPMENT.
- PRIOR TO EQUIPMENT INSTALLATION, SUBMIT COMPLETE SEISMIC ANCHORAGE AND BRACING
 CALCULATIONS AND DETAILS SHOWING EQUIPMENT WEIGHTS AND CENTERS OF GRAVITY, LOCATION,
 QUANTITIES, SIZES AND METHOD OF ANCHORAGE AND BRACING WITH A CHECK FOR COMBINED SHEAR
 AND TENSION BASED ON UNIFORM BUILDING CODE SECTION 1613 AND ASCE 7 SECTION 13.6 USING THE
 FOIL OWING MINIMUM CRITERIA:
- a. FIXED EQUIPMENT ON GRADE: 50% OF OPERATING WEIGHT
- b. FIXED EQUIPMENT ON STRUCTURE: 75% OF OPERATING WEIGHT
 c. FLEXIBLY MOUNTED EQUIPMENT: 4 TIMES THE ABOVE VALUES.
- d. SIMULTANEOUS VERTICAL FORCE: 1/3 X THE HORIZONTAL FORCE.
- 3. REFER TO ASCE 7 TABLE 13.6-1 FOR APPLICABLE SEISMIC COEFFICIENTS ap AND Rp.
- REFER TO CBC FOR APPLICABLE FORCE FACTOR "Cp". INCLUDING THE EFFECT OF TEMPERATURE CHANGE IN PREPARATION OF ANCHORAGE AND BRACING DETAILS.
- 5. THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE OWNER/ARCHITECT
- 6. CONTRACTOR SHALL DESIGN- BUILD THE SEISMIC ANCHORAGE & SUPPORTS FOR ALL NEW ELECTRICAL EQUIPMENT & FOR EXISTING ACCESSIBLE & VISIBLE CONDUITS AND PULLBOXES, AND FOR NEW CONDUITS, NEW EQUIPMENT & NEW PULLBOXES. SUPPORT PANELBOARDS IN UNISTRUT SUPPORTS FLOOR TO CEILING SLAB.
- SUBMIT SEISMIC CALCULATION & RESTRAINT DESIGN (SIGNED BY A REGISTERED STRUCTURAL ENGINEER) FOR REVIEW BY OWNER.

NOTES TO LOW VOLTAGE CONTRACTOR

- REFER TO ARCHITECTURAL DETAIL DRAWING FOR POWER AND DATA CABLE DIAGRAM FOR ADDITIONAL INFORMATION.
- REMOVE ANY EXCESS CAT 5 CABLES AT THE CASH WRAP AND BACKROOM TELEPHONE/IT BACKBOARD.
- TERMINATE ALL CAT 5/CAT5e/CAT6a CABLES TO EXACT AND APPROPRIATE LENGTH AND ARRANGED IN STRUCTURED MANNER PER CURRENT ACCEPTABLE INDUSTRY STANDARD.
- 4 ALL CABLES SHALL TERMINATE IN A JACK AND BACKROOM TELEPHONE/IT CABLES ARE NEAT.
- 5. PROVIDE 1" VELCRO TO BUNDLE ALL LOW VOLTAGE WIRES.
- ALL LOW VOLTAGE CABLES SHALL BE IN 3/4"C MIN. OR IN AN APPROPRIATE WIREMOLD RACEWAYS
 BH L PATIO SHALL NOT EYCEED ADM.
- PROVIDE #16 AWG SPEAKER WIRE @ MAXIMUM 80'-0" LENGTH, #14 AWG FOR 200'-0" LENGTH AND #12 AWG FOR LENGTH LONGER THAN 200'-0".
- SECURITY DEVICES, IF ANY MUST BE CONCEALED AND MUST NOT DISTURB STRUCTURAL SLAB. NO
 VISIBLE SECURITY DEVICES OF ANY KIND WITHIN 5' OF STOREFRONT LEASE LINE. CAMERAS, MOTION
 DETECTORS, TRAFFIC COUNTERS, ETC, MUST BE RECESSED OR LOW PROFILE. SUBMIT
 MANUFACTURERS SHOP DRAWINGS FOR REVIEW AND APPROVAL.
- REFER TO ARCHITECTURAL DRAWING FOR TYPICAL CASHWRAP WIRING DIAGRAM AND POINT OF CONNECTION GOING TO POWER AND DATA.

NOTES TO CONTRACTOR

- A. ALL CONTRACTORS (GENERAL CONTRACTOR AS WELL AS ALL SUB-CONTRACTORS) BIDDING AND AWARDED TO CONSTRUCT THIS FACILITY ARE RESPONSIBLE FOR VERIFYING ALL EQUIPMENT FURNISHED AND SUPPLIED AND INSTALLED AT THIS SITE. THE EQUIPMENT UTILITY (GAS, WATER, SEWER, VENT, ELECTRICAL, BUILDING MECHANICAL SYSTEMS. DUCT CONNECTIONS, EXHAUST CONNECTIONS, SECURITY, FIRE ALARM, DATA, PHONE, ETC.) CONNECTION MUST BE VERIFIED BEFORE BIDDING. THIS INCLUDES BUT NOT LIMITED TO POINT OF CONNECTION COATIONS, TYPO CONNECTIONS, AND COORDINATION WITH OTHER TRADES. THE CONTRACTORS SHALL BE RESPONSIBLE FOR READING THE EQUIPMENT SPECIFICATION BOOK AS PART OF THE CONSTRUCTION DOCUMENTATION. THE EQUIPMENT WILL INCLUDE ALL EQUIPMENT PURCHASED OR FURNISHED OR INSTALLED BY ANY ONE.
- B. ALL UTILITY CONNECTIONS AND THEIR LOCATIONS MUST INCLUDE ALL EQUIPMENT AS REQUIRED BY THE UTILITY COMPANY AS WELL AS LOCAL CODES OR THE SHOPPING CENTER/MALL REQUIREMENTS. CONTRACTOR TO VERIFY ALL REQUIREMENTS BEFORE BID. THE MOST STRINGENT REQUIREMENT SHALL APPLY EVEN IF NOT DETAILED.
- C. THE CONTRACTORS ARE RESPONSIBLE FOR REQUESTING VERIFICATION OF ALL OWNER REQUIREMENTS AS WELL AS ANY OTHER LOCAL/STATE/FEDERAL REQUIREMENTS. THE CONTRACTOR SHALL VERIFY AND INSURE ALL EXISTING SYSTEMS FUNCTIONAL. CONTRACTOR TO VERIFY THE PLACEMENT OF NEW EQUIPMENT ARE AVAILABLE. ALL EQUIPMENT FURNISHED TO THE CONTRACTOR AS WELL AS PURCHASED BY THE CONTRACTOR MUST BE ACCOMPANIED WITH FULL SUBMITTAL PROCESS AND ENGINEERS' APPROVAL. THE CONTRACTOR SHALL FOLLOW ALL INSTALLATIONS PER LOCAL AND STATE CODES. ANY FIELD CORRECTION MUST BE PERFORMED BY THE CONTRACTOR AT NO COST TO THE OWNERS.
- D. THE CONTRACTORS ARE RESPONSIBLE FOR REQUESTING EQUIPMENT CUT SHEETS AND IF THE EQUIPMENT FURNISHED DIFFERED FROM THE CUT SHEETS, THE CONTRACTOR SHALL ADJUST THE INSTALLATION ACCORDINGLY. ALL COORDINATION AND ADJUSTMENT AMONG ALL TRADES MUST BE PERFORMED BY THE GENERAL CONTRACTOR. ALL COORDINATION AND THE DISTRIBUTION OF RESPONSIBILITY FOR THE SITE IS BY THE GENERAL CONTRACTOR. ALL BIDS MUST BE FOR FULL INSTALLATION OF COMPLETE FUNCTIONAL AND OPERATIONAL EQUIPMENT AND SYSTEMS. ALL ACCESSORIES AND PERIPHERALS WIRES, CONDUITS, PIPES, CONNECTIONS, ROOF PENETRATIONS, ATTACHMENTS, SUPPORTS, AND ANY OTHER REQUIREMENTS WILL BE PART OF BID FOR FULLY FUNCTIONAL AND COMPLETE INSTALLATION AS REQUIRED BY PLANS AND SPECIFICATIONS AS WELL AS LOCAL REQUIREMENTS. ALL WORKS INVOLVING VARIOUS TRADES EVEN THOSE NOT SHOWN ON THESE DRAWINGS SUCH AS SECURITY SYSTEMS, FIRE ALARM SYSTEMS, HYAC SYSTEMS, ETC. MUST BE WELL OF ABOVE REQUIREMENTS AND MUST INCLUDE ALL PROVISIONS INTO THE BID DAND INSTALLATION.
- E. ALL EXISTING INSTALLATIONS & CONNECTIONS DONE BY OTHERS ARE NOT PART OF THE SCOPE OF THIS PROJECT. IF THE INSTALLATION, CONNECTIONS, MATERIALS & EQUIPMENT ARE NOT TO CODE OF ARE UNSAFE, THE OWNER OF THE BUILDING SHALL BE CONTACTED AND ALL CORRECTIONS TO EXISTING WORK SHALL BE DONE UNDER SEPARATE CONTRACT. ENGINEER IS NOT RESPONSIBLE FOR ANY EXISTING CONDITIONS OR WORK PREVIOUSLY DONE BY OTHERS.
- F. WHERE CONDITIONS ARE SHOWN OR NOTED AS EXISTING, THEY ARE BASED ON THE BEST INFORMATION CURRENTLY AVAILABLE AT THE TIME OF PREPARATION OF THESE DRAWINGS. NO WARRANTY IS IMPLIED AS TO THE ACCURACY OF SAME HOWEVER AND CONTRACTOR IS TO FIELD VERIFY ALL CONDITIONS. SHOULD FIELD CONDITIONS DIFFER FROM THOSE SHOWN HEREIN THEY SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO PROCEEDING WITH WORK.
- G. CONTRACTORS TO PREPARE SHOP DRAWINGS AFTER CONDUCTING SITE SURVEY. THE SHOP DRAWINGS MUST PROVIDE THE NECESSARY INSTALLATIONS, CUSTOMIZED ACCORDING TO ACTUAL SITE CONDITIONS. PROVIDE A COPY TO THE CLIENT, ARCHITECT & ENGINEERS A WEEK PRIOR TO MOBILIZATION.
- H. CONTRACTOR TO PREPARE TWO COPIES OF RED LINE AS-BUILT DRAWINGS. USE THE SHOP DRAWINGS AS THE BASE PLAN, RED PENCIL (NOT PEN) TO UPDATE THE SAID AS-BUILT EVERYDAY. THE FIRST COPY IS FOR TECHNICIAN REFERENCE WHILE WORKING. THE SECOND COPY SHOULD BE KEPT CLEAN, NEAT, & LEGIBLE. THIS SHALL BE USE FOR INSPECTION, MEETING, RFI PREPARATION, AND OTHER APPLICATIONS WHEREON A CLEAN, NEAT, & LEGIBLE COPY IS NECESSARY. PRIOR TO RELEASE OF HINAL PAYMENT, THE SECOND COPY MUST BE CERTIFIED BY THE CONTRACTOR'S LICENSEE AS COMPLETE & CORRECT. SCAN AND PROVIDE ELECTRONIC COPY TO THE CLIENT, ARCHITECT, & ENGINEERS. THE HARD COPY MUST BE KEPT BY THE CONTRACTOR DURING WARRANTY PERIOD AND MUST BE SUBMITTED TO STORE MANAGER ON THE LAST DAY OF WARRANTY.
- I. SHOULD THE CONTRACTOR BE UNABLE TO FOLLOW PLANS AND THERE IS A NEED TO DEVIATE FROM PLANS SIGNIFICANTLY, THE GENERAL CONTRACTOR MUST, USING ITS OFFICIAL FORM, MUST SEND REQUEST FOR INFORMATION (RFI) OR REQUEST FOR CLEARANCE TO THE ARCHITECT OF RECORD & COPY FURNISH THE ENGINEERS. THE RFI MUST BE CONCISE & SUPPORTED W/ SKETCH, DRAWINGS, CUT SHEET AND/OR OTHER MATERIALS THAT WILL HELP THE ENGINEERS RESPOND PRECISELY AND QUICKLY. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE AND BEAR THE COSTS OF ANY ADDITIONAL CHARGES THAT MAY RESULT FROM PLAN DEVIATIONS WITHOUT AUTHORIZATION FROM OWNER OR ENGINEER.
- J. PLANS ARE SUBJECT TO CHANGE PENDING ALL REQUIRED CITY/MUNICIPALITY APPROVALS & PERMITS.

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DRAWN BY: SC CHECK BY: EA STAMPED/SIGNED: RH fb+h

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| CHANGES REVISIONS #1 | CHANGES REVISIONS #1

GENERAL NOTES AND SHEET INDEX

ipersky4.0 CD.pin

E0.1

| SYMBOLS | DESCRIPTION | SYMBOLS | DE N | A |
|--|---|-------------------------------|--|--------------|
| Φ | DUPLEX RECEPTACLE: 20A-125V, 2W GROUNDING TYPE, +15" A.F.F. U.O.N. | | CONDUIT, STUBBED OUT AND CAR | A |
| ₩ | DUPLEX AFCI RECEPTACLE: 20A-125V, 2W GROUNDING TYPE, +15" A.F.F. U.O.N. | | 3/4"C-3#12. PROVIDE #12 GREEN GROUND WIRE MIN. IN EACH CONDUIT RUN | Al |
| | DUPLEX RECEPTACLE: 20A-125V, 2W GROUND FAULT CIRCUIT INTERRUPTER | | 3/4"C-4#12. PROVIDE #12 GREEN GROUND VIRE MIN. IN EACH CONDUIT RUN 3/4"C-5#12. PROVIDE #12 GREEN GROUND VIRE VIN. IN EACH CONDUIT RUN | Al |
| ₩ | TYPE. +15" A.F.F. U.O.N. | | 1°C-6#12. PROVIDE #12 GREEN 9 ROUNDIWRE MN 3 FACY CONDUIT RUN | Al |
| ∯IG | DUPLEX RECEPTACLE: 20A-125V, 2W + ISOLATED GROUND TYPE, +15" A.F.F. U.O.N. | AME | FLUSH MOUNTED LIGHTING OR POWER PANELBOARD-P | A |
| Ø | DUPLEX RECEPTACLE: 20A-125V-2P, 2W GROUNDING TYPE, CEILING MTD. U.O.N. | | | A A |
| * | WALL MOUNTED DOUBLE DUPLEX CONVENIENCE OUTLET, +18" OR AS NOTED | | SURFACE MOUNTED LIGHTING OR POWER PANELBOARD FLUSH MOUNTED TERMINAL CABINET OR AS SHOWN | B |
| ₩ | QUADPLEX RECEPTACLE: 20A-125V, 2W GROUND FAULT CIRCUIT INTERRUPTER | | SURFACE MOUNTED TERMINAL CABINET OR AS SHOWN | В |
| | TYPE, +15" A.F.F. U.O.N. QUADPLEX RECEPTACLE: 20A-125V, 2W + ISOLATED GROUND TYPE, +15" A.F.F. | | SURFACE MOUNTED DISTRIBUTION PANELBOARD | B |
| ∯ ^{IG} | U.O.N. | | DISTRIBUTION SWITCHBOARD OR MOTOR CONTROL CENTER | C |
| Φ | SINGLE RECEPTACLE: 20A-125V, 2W GROUNDING TYPE, +15" A.F.F. U.O.N. | ТТ | TRANSFORMER | С |
| ⊕ TL | DUPLEX RECEPTACLE: 20A-125V, 2W GROUNDING TYPE, +15" A.F.F. U.O.N. TWISTLOCK RECEPTACLE | | | - C |
| φ | WALL MOUNTED HALF-SWITCHED DUPLEX CONVENIENCE OUTLET, +18" OR AS | F1 | INDICATES LIGHTING FIXTURE TYPE "F1", SEE SCHEDULE FOR INFORMATION LIGHT FIXTURE-SURFACE, PENDANT MOUNTED OR RECESSED WITH ATTACHED | C |
| | NOTED WALL MOUNTED SINGLE RECEPTACLE: 20A-220V GROUNDING TYPE, +15" A.F.F. | + • • | JUNCTION BOX. | - C |
| © | U.O.N. | <u>O</u> | LIGHT FIXTURE WALL MOUNTED WITH J-BOX FLUORESCENT FIXTURE-SURFACE MOUNTED WITH CEILING OUTLET | - C |
| ∇ | WALL MOUNTED DATA OUTLET WITH 3/4" CONDUIT TO TERMINAL BOARD, +15" A.F.F. U.O.N. | | FLUORESCENT FIXTURE-SORVACE MOUNTED WITH CEIGING GOTEET | |
| ∇ | CEILING MOUNTED DATA OUTLET WITH 3/4" CONDUIT TO TERMINAL BOARD | O-TFOH | FLUORESCENT FIXTURE-SURFACE STRIP OR UNDERCABINET | |
| ¥ | TELEPHONE OUTLET WITH 3/4" CONDUIT TO TEL. BACKBOARD, +15" A.F.F. U.O.N. | رف | FLUORESCENT FIXTURE-SURFACE WALL MOUNTED | D |
| lacksquare | COMBINATION TELEPHONE & DATA OUTLET, +15" A.F.F. U.O.N. WITH 3/4" CONDUIT TO DATA TERMINAL AND TELEPHONE BACKBOARD. | • | LIGHT FIXTURE ON EMERGENCY CIRCUIT | D |
| ZXII FLOOR | FLOOR MOUNTED J-BOX FOR WORKSTATION POWER WHIP LOCATION- EA. WHIP SHALL HAVE 4 CIRCUITS PULLED TO EA. LOCATION (3 SHARED CIRCUITS PLUS 1 DEDICATED CIRCUIT). PROVIDE DATA CABLE PULL FOR 4 DROPS AT EA. WHIP LOCATION. LOCATE J-BOX 12" FROM PERIMETER WALL, U.N.O. | ₽⊗ | EXIT SIGN LIGHTING FIXTURE. SHADED PORTION INDICATES FACE WITH DIRECTIONAL ARROWS AS INDICATED. PROVIDE (1) J-BOX EACH FOR NORMAL AND EMERGENCY CIRCUIT (ALSO INCLUDE LOW LEVEL EXIT SIGN AT EACH SYMBOL) | D D E |
| Ø 0 | CEILING MOUNTED DUPLEX/TELE/DATA OUTLETS | TL | TASK LIGHTING FIXTURE. SEE ARCH. DETAILS. SIGN OUTLET. VERIFY SERVICES' REQUIREMENT & LOCATION WITH SIGN | - - |
| CEILING | | (3) | INSTALLER | E |
| <i>፟</i> Ø | DUPLEX RECEPTACLE OUTLET FLUSH IN FLOOR BOX | | NEW (N) SINGLE POLE TOGGLE SWITCH +48" OR AS NOTED SUBSCRIPTS AT SWITCH SYMBOLS, INDICATE THE FOLLOWING: | E |
| Ψ | 208V. RECEPTACLE, RATING AS NOTED ON THE PLANS TELEVISION OUTLET WITH 3/4" CONDUIT TO TELEVISION TERMINAL, +15" A.F.F. | | SWITCH STMBOLS, INDICATE THE POLLOWING. | E |
| HTV | U.O.N. | s | 2 - DOUBLE POLE P - PILOT LIGHT, RED JEWEL 3 - THREE WAY R - REMOTE CONTROL SWITCH | E |
| —————————————————————————————————————— | 1" DATA C.O.MIN. OR AS NOTED. | 3 | 4 - FOUR WAY m - MOTOR RATED | E |
| D# | 1 1/4" DATA C.O. | | D - DIMMER CONTROL SWITCH M - MOMENTARY CONTACT K - KEY OPERATED T - TIMER | E |
| | TELEPHONE CONDUIT 2" MINIMUM U.O.N. | | a, b, c, ETC IDENTIFICATION OF LIGHTING CONTROLLED | (1 |
| СТ | CABLE TRAY | | The second secon | E |
| ITB FP | TTB, 4/88/3/4* FIRE RETARDANT PLYWOOD, PROVIDE \$*C-1#6 GRD, AND BOND TO COMMUNICATION BOARD. FUSED DISCONNECT SWITCH, EXO, H.P. RATED FOR MOTOR SERVED. ' | os | 2-HR. OVERRIDE SWITCH INTERFACED WITH T24 PROGRAMMABLE LIGHTING CONTROL RELAY PANELS OR ASTRONOMICAL TIME CLOCK. VERIFY AND COORDINATE EXACT LOCATION. | F |
| | NON FUSED DISCONNECT SWITCH ,EXO ,H.P. RATED FOR MOTOR SERVED. | SB | DIMMER SWITCH BANK. VERIFY AND COORDINATE EXACT LOCATION. | F |
| 1 🖼 30/3 | COMBINATION MOTOR STARTER SIZE 1 WITH A 30AMP, 3P DISCONNECT SWITCH | ITC | INTERIOR LIGHTING TIME CLOCK, VERIFY AND COORDINATE EXACT LOCATION. | _ F |
| 2 | MAGNETIC LINE VOLTAGE STARTER, SIZE '2' | ETC | EXTERIOR LIGHTING TIME CLOCK. VERIFY AND COORDINATE EXACT LOCATION. | F |
| 2 | | <u>(§)</u> → | MANUAL MOTOR STARTER. +48" OR AS NOTED (WITH THERMAL OVERLOAD) | - - |
| 70/3 | MAGNETIC LINE VOLTAGE STARTER, SIZE '2' WITH A 70 AMP 3 POLE C.B. | ○ H | PUSHBUTTON STATION - SINGLE BUTTON, +48" OR AS NOTED START-STOP PUSHBUTTON STATION, +48" OR AS NOTED | IJL <u>F</u> |
| | CONTROL DEVICE AS INDICATED | <u>J</u> → | JUNCTION BOX, +18" OR AS NOTED | - L |
| 4'-6" | FROM FINISHED FLOOR TO CENTER LINE OF OUTLET OR EQUIPMENT | <u>(1)</u> | JUNCTION BOX, ABOVE CEILING | ١, |
| <u>©</u> | COMBINATION CO AND SMOKE DETECTORS EXHAUST FAN. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION, | <u> </u> | JUNCTION BOX, FLUSH IN FLOOR | ┦ ' |
| 0 | QUANTITY AND ELECTRICAL REQUIREMENT. | i i | JUNCTION BOX, FLUSH IN CEILING | 2 |
| 2 | REFERENCE TO NOTE 2 | <u> </u> | PIGTAIL INDICATES CONNECTION TO EQUIPMENT (LFSC) | 7 ′ |
| (E) | DENOTES EXISTING TO REMAIN | Ρ | WALL MOUNTED BI-LEVEL OCCUPANCY SENSOR SWITCH. PROVIDE 3/4"C-4#12 | - |
| R | REMOVE REMOVE & RELOCATE (INCLUDING CONDUITS & WIRES) | H _{OO} _{ab} | CONNECTION. (MINIMUM) | 3 |
| RR ——III | GROUND | +⊚ | WALL MOUNTED OCCUPANCY SWITCH. PROVIDE 3/4"C-3#12 | 1 |
| | SMR WITH OUTLETS AT 12" O.C. OR AS NOTED (WITH FIBER COMPLIANT FITTINGS) | S | CONNECTION.(MINIMUM) SWITCHPACK | - 4 |
| PCE | PHOTOCELL (EXTERIOR) | | CEILING MOUNTED OCCUPANCY SENSOR SWITCH WITH SWITCH PACK AND | - 5 |
| PCI | PHOTOCELL (INTERIOR) | © | LOCAL KEY-OVERRIDE SWITCH LISTED FOR DAMP LOCATION, WATT STOPPER #EN-200, OR EQUAL, WITH 3/4"C-3#12 CONNECTION (MINIMUM) | |
| AME-1,3,5 | THREE SINGLE PHASE CIRCUITS TO PANEL 'AME' WITH SEPARATE NEUTRAL | /M/ | MOTOR LOAD | 6 |
| AME-1,3 | TWO SINGLE PHASE CIRCUITS TO PANEL 'AME' WITH SEPARATE NEUTRAL | Ū | THERMOSTAT | 7 |
| AME-1&3&5 AME-1&3 | ONE THREE PHASE CIRCUIT TO PANEL 'AME' - NO NEUTRAL ONE SINGLE PHASE CIRCUIT TO PANEL 'AME' - NO NEUTRAL | M | ELECTRIC UTILITY METER | 」 ′ |
| AME-1&3 | HOMERUN TO PANEL OR CABINET AS DESIGNATED | OR (RH) | RETAIL TRAFFIC CEILING SENSOR LOCATED AT FRONT OF STORE, PROVIDE | 1. |
| | CONDUIT RUN CONCEALED ABOVE CEILING OR WALLS WITH 1/2" CONDUIT-2#12 | | POWER AND DATA OUTLET. RUN CAT 5 CABLE TO CASH DESK AREA. | ٦ " |
| | +1#12 GND. UNLESS OTHERWISE NOTED. CONDUIT RUN CONCEALED BELOW FLOOR OR GRADE WITH 1/2" CONDUIT-2#12 | XXXX | REFERENCE TO DETAIL#X ON SHEET #XXX | g |
| | UNLESS OTHERWISE NOTED. | 9 | CHIME, BY GC OR AS NOTED |] * |
| | CONDUIT RUN EXPOSED CONDUIT STUB UP | | | |
| | OUNDOIT OTOD OF | - | | 1 |

CONDUIT STUB DOWN

| | EVIATIONS AMPERE | GND/GRD | GROUND |
|----------|---|---------------------|---|
| A A I C | AMPERE INTERRUPTING CAPACITY | GND/GRD GFI/GFCI | GROUND FAULT INTERRUPTER |
| AIC | AMPERE INTERROPTING CAPACITY AMPERE FUSE | GN GN | GENERAL NOTES |
| AF | ARC FAULT CIRCUIT INTERRUPTER | HI | HEARING IMPAIRED |
| AFCI | | HP | HORSE POWER |
| ALT | ALTERNATE | HPF | HIGH POWER FACTOR |
| AS | AMPERE SWITCH | | |
| AF | AMPERE FUSE | LCP | HIGH VOLTAGE LIGHTING CONTROL PANEL |
| AT | AMPERE TRIP | LF | LINEAR FEET |
| BC | BARE COPPER | | |
| BKBD | BACKBOARD | LTG | LIGHTING |
| BLDG | BUILDING | MAX | OWNER FURNISHED, OWNER INSTALLED |
| С | CONDUIT | OFO! | OWNER FURNISHED, OWNER INSTALLED OWNER FURNISHED, CONTRACTOR INSTALLED |
| CAB | CABINET | OFCI PC | PHOTOCELL |
| CB | CIRCUIT BREAKER | | PANEL |
| CKT | CIRCUIT | PNL | PROGRAMMABLE TIME SWITCH |
| CFL | COMPACT FLUORESCENT LAMP | | RECEPTACLE |
| CLG | CEILING | RECEPT | REQUIREMENT |
| CO | CONDUIT ONLY | | SEE ARCHITECTURAL DRAWINGS |
| CT | CURRENT TRANSFORMER | SAD | SURFACE MOUNTED DEVICE OR EQUIPMENT |
| CU | COPPER | SW | SWITCH |
| DA | DISABLE ACCESS | | |
| DED | DEDICATED CIRCUIT | SWBD. | SWITCHBOARD SYSTEM |
| DOC | DOCUMENTS | | SYMMETRICAL |
| DISC | DISCONNECT | SYM | |
| DN | DOWN | STD | STANDARD SPECIFICATION |
| DWG | DRAWINGS | SPECS | |
| EA | EACH | TVSS | TRANSIENT VOLTAGE SURGE SUPPRESSOR |
| EDF | ELECTRIC DRINKING FOUNTAIN | TC | TIME CLOCK |
| EG. | EQUIPMENT GROUND | TERM | TERMINAL/TERMINATE |
| ELEC. | ELECTRICAL | TYP | TYPICAL |
| ENCL. | ENCLOSURE | TL | TASK LIGHT |
| EMH. | ELECTRICAL POWER MANHOLE | UG | UNDERGROUND |
| EXH. | EXHAUST | UON | UNLESS OTHERWISE NOTED |
| EP. | EXPLOSION PROOF | VA | VOLTAMPERES |
| EXO | EXTERNALLY OPERATED | VAV | VARIABLE AIR VOLUME |
| EXIST. | EXISTING | VFD | VARIABLE FREQUENCY DRIVE |
| (E) OR E | EXISTING TO REMAIN | VP | VAPOR PROOF VERIFY EXACT LOCATION WITH |
| (N) OR N | NEW. PROVIDE ALL ACCESSORIES | VL | OWNER/ARCHITECT |
| EM | EXISTING ITEM OF EMERGENCY CONDUIT | - w | WATTS |
| FA. | FIRE ALARM | W/O | WITHOUT |
| FBO. | FURNISHED BY OTHERS | WP | WEATHER PROOF |
| FC | FOOT CANDLE | XFMR | TRANSFORMER |
| FCU | FAN COIL UNIT | Z | IMPEDANCE |
| FIXT | FIXTURE | - & | AND |
| FLR | FLOOR | Ø | DIAMETER OR PHASE |
| FLEX | FLEXIBLE | # | NUMBER |
| FLUO | FLUORESCENT | | TIOMOLIS |

- CONTRACTOR SHALL VISIT THE SITE, INCLUDING THE SPECIFIC AREAS OF THE PROJECT, TO BE THOROUGHLY FAMILIAR WITH THE
 EXISTING CONDITIONS, AND INCLUDE THEM IN THE PROJECT SCOPE OF WORK.
- EXISTING CIRCUITS THAT ARE INDICATED TO BE REMOVED, SHALL HAVE THEIR CONDUITS, WIRING, BOXES, ETC. COMPLETELY
 REMOVED BACK TO THE RESPECTIVE POWER SOURCE EQUIPMENT, AND THEIR CIRCUITS, IF NOT REUSED, IDENTIFIED AS
 SPARES.
- EXISTING CONDUITS, WHERE ADEQUATE, MAY BE REUSED, WITH THE PROVISION OF SUPPORTS COMPLYING WITH CURRENT CODE.
- $4. \hspace{0.5cm} \hbox{COORDINATE ALL DEMOLITION WORK WITH OWNER/ARCHITECT AS TO PHASING OF CONSTRUCTION.} \\$
- ALL EXISTING WORK NOT INDICATED TO BE MODIFIED SHALL BE MAINTAINED. CONTRACTOR TO INCLUDE REROUTING AND
 MODIFICATION OF EXISTING CONDUIT & WIRING TO MAINTAIN CIRCUITS TO EXISTING DEVICES & EQUIPMENT THAT IS TO REMAIN.
- DRAWINGS INDICATE EXISTING CIRCUITING AS NOTED ON EXISTING AS-BUILT DWGS, CONTRACTOR TO VERIFY & ADJUST CIRCUITS TO CURRENT EXISTING CONDITIONS AS REQUIRED.
- CONTRACTOR TO BE RESPONSIBLE FOR MAINTAINING ALL ELECTRICAL SYSTEMS IN OPERATION, PROTECT IN PLACE EACH ELECTRICAL EQUIPMENT AND DEVICES WHICH ARE TO REMAIN.
- 8. CONTRACTOR TO COORDINATE WITH OWNER WHICH MATERIALS/EQUIPMENT ARE BEING REMOVED UNDER DEMOLITION WHICH THE OWNER WANTS TO RETAIN AND THESE ITEMS SHALL BE TAGGED & BOXED AND TURNED OVER TO OWNER.
- 9. WHEN NECESSARY, CONTRACTOR TO PROVIDE TO TEMPORARILY REROUTE, RELOCATE EXISTING ELECTRICAL EQUIPMENT & CIRCUITING (CONDUITS & WIRES), TO MAINTAIN THE CIRCUITING DURING CONSTRUCTION.
- 10. COVER ALL HOLES IN FLOOR, WALLS & CEILING RESULTING FROM REMOVAL OF OUTLETS, PATCH TO MATCH ADJACENT SURFACE.
- 11. REFER TO ARCHITECTURAL DRAWING FOR COMPLETE ADDITIONAL AND COMPLETE DEMOLITION INSTRUCTION AND REQUIREMENT.
- 12. WHEN NECESSARY, CONTRACTOR TO PROVIDE TO TEMPORARILY REPOUTE, RELOCATE EXISTING ELECTRICAL EQUIPMENT & CIRCUITING (CONDUITS & WIRES), TO MAINTAIN THE CIRCUITING DURING CONSTRUCTION.
- 13. COVER ALL HOLES IN FLOOR, WALLS & CEILING RESULTING FROM REMOVAL OF OUTLETS, PATCH TO MATCH ADJACENT SURFACE .
- 14. REFER TO ARCHITECTURAL DRAWING FOR COMPLETE ADDITIONAL AND COMPLETE DEMOLITION INSTRUCTION AND REQUIREMENT.

fb + h

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| | CHANGES REVISIONS #1 | | | | | | | |
|---|-----------------------------------|--------------------------|----------------------|-------------|-----------|------------|----------------------|------------------------|
| | | | | | | | - | |
| | November 2016 As-Built Drawings | ARB and SCHEMATIC DESIGN | Consruction Drawings | REVISED ARB | BIDDING | PLAN CHECK | PLAN CHECK REVISIONS | CONSTRUCTION DOCUMENTS |
| - | November 2016 | 12/29/16 | 1/23/17 | 1/30/2017 | 2/20/2017 | 6/27/2017 | | |

SYMBOLS LIST AND ABBREVIATIONS

Pipereky1.0 CD.p

E0.2

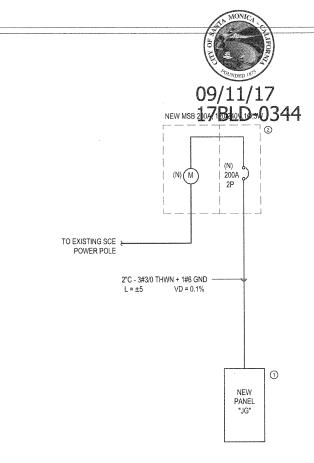
| | NEW | | | | | | | | | | | | | | | | | | | 10kAIC | |
|----|---------------------|----------|------|------------|------------|------------|------------|-----|------|----------|----------|--------|------|------------|----------|----------|------|-------|-------|-----------------------|-----|
| | PANEL JG | | | | | | | | | | | | _ T | YPE | | | REC | ESSED | | | |
| | VOLTAGE 120/240 | ,1Ø,3W | | | | | | | | | | | | MAIN | C.B. | | M. | L.O. | | | |
| | LOCATION BOH | | | | | | | | | | | | | SUS S | | | 2 | 00A | | | |
| | | M/AT | TAGE | Г | Г | Г | | | Г | Γ | | Т | | Г | | Γ | | WAT | TAGE | I | |
| | LOCATION | ØA | ØB | LTG | REC | MIS | LCL | CIR | BKR | L1 | L3 | DKR | CIR | LCL | MIS | REC | LTG | ØA | ØB | LOCATION | |
| 0 | INTERIOR LIGHTS | 400 | | 6 | - | 1EF | - | 1 | 20-1 | - | - | 20-1 | 2 | - | 1 | - | - | 500 | | HOOD LIGHT/CONTROL | |
| 2) | EXTERIOR LIGHTS | | 800 | 14 | - | - | - | 3 | 20-1 | | - | 20-1 | 4 | - | 1 | - | - | | 620 | (10) AIR CURTAIN | |
| 2) | SIGN LIGHT | 1200 | | - | - | 1 | - | 5 | 20-1 | - | | - 20-1 | 6 | - | - | 1 | - | 1440 | | (16) REACH-IN FREEZE | |
| | SPARE | | - | - | - | - | - | 7 | 20-1 | | | 20-1 | 8 | - | - | 1 | - | | 1440 | (17) REACH-IN REF | ĺ |
| | (36) ICE MACHINE | 3000 | | - | - | 1 | - | 9 | 25/ |] | | - 20-1 | 10 | - | - | 1 | - | 240 | | (24) GRIDDLE RANGE | 3 |
| | W/ CKT#9 | | 3000 | - | - | - | - | 11 | /2 |] | | - 25/ | 12 | - | - | 1 | - | | 2300 | (25) TOASTER | |
| | (37) SODA DISPENSER | 600 | | - | 1 | | - | 13 | 20-1 | | -+ | - /2 | 14 | - | - | - | - | 2300 | | W/ CKT#12 | ĺ |
| | (38) BAG-IN-BOX SYS | | 1200 | - | 1 | - | - | 15 | 20-1 |]- | - | - 20-1 | 16 | - | - | 1 | - | | 1050 | (27) REF TABLE | |
| | POS | 360 | | - | 2 | - | - | 17 | 20-1 | _+- | \dashv | 20-1 | 18 | - | - | 1 | - | 1650 | | (42) FOOD WARMER | |
| | POS | | 360 | <u> </u> | 2 | - | - | 19 | 20-1 |] | -+ | - 20-1 | 20 | - | - | 1 | - | | 1000 | (29) SHORTY REF | 333 |
| | RESTROOM OUTLET | 180 | | - | 1 | - | - | 21 | 20-1 | - | -+ | - 20-1 | 22 | - | - | 1 | - | 730 | | (32) WORKTOP FREEZE | 3 |
| | ROOF OUTLET | | 180 | - | 1 | <u> -</u> | - | 23 | 20-1 | \vdash | | - 20-1 | 24 | - | - | 1 | - | | 750 | (33) FRY DUMP | 3 |
| | TIME CLOCK/CONTROL | 180 | | - | <u> </u> | 1 | - | 25 | 20-1 | -+- | + | - 20-1 | 26 | - | - | 1 | - | 120 | | (34) LIQUID DISPENSER | |
| | TEL/IT | | 360 | - | 2 | - | _ | 27 | 20 1 | 1 | -+ | - 20-1 | 28 | - | <u> </u> | 1 | - | | 300 | (35) DRINK MIXER | |
| | WATER HEATER | 600 | | - | 1 | - | - | 29 | 20-1 | - | \dashv | - 20-1 | 30 | - | - | 1 | - | 650 | | (32) WORKTOP FREEZE | |
| | ROLL-UP DOOR | | 1000 | <u> -</u> | 1 | - | <u> -</u> | 31 | 20-1 | 1+ | - | - 20-1 | 32 | - | 1 | - | - | | 100 | EF-3 | |
| | OUTDOOR OUTLET | 900 | | - | 5 | - | - | 33 | 20-1 | - | | 20/ | 34 | <u> </u> | 1 | - | - | 600 | | EF-1 | |
| | PATIO OUTLET | | 1260 | - | 7 | - | - | 35 | 20-1 | \vdash | | - / 2 | 36 | <u> </u> - | 1 | - | - | | 600 | W/ CKT#34 | |
| | SF-1 | 840 | | - | - | 1 | - | 37 | 20/ | 1-+- | \dashv | - 20-1 | 38 | - | - | - | - | - | | SPARE | |
| | W/ CKT#37 | | 840 | - | <u> </u> - | - | <u> </u> - | 39 | /2 | ╟┼ | -+ | - 20-1 | 40 | - | - | - | - | | - | SPARE | |
| | | <u> </u> | ļ | ŀ | <u> </u> - | ŀ | - | 41 | 20-1 | - | + | 20-1 | 42 | <u> </u> | · | - | - | - | | SPARE | |
| | TOTAL | 8140 | 8160 | ╁ | <u></u> | <u></u> | L | L | 1 | <u></u> | Т | | L | J | | <u> </u> | L | 8350 | 9040 | TOTAL | |
| | CONN. LOAD = | | 336 | 90 V | Α | | | | | | LC | L = | 2400 | | | | X 12 | 25% = | 3000 | | |
| | FEEDER AMPS. = | | 1 | 43 A | | | | | | | RE | MAIN | DER | | | | | | 31290 | VA | |
| | | | | | | | | | | | TC | TAL | | | | | | | 34290 | VA | |

NOTES:

- (1) CIRCUIT TO BE CONNECTED VIA ASTRONOMICAL INTERIOR TIME CLOCK "ITC".
- 2 CIRCUIT TO BE CONNECTED VIA ASTRONOMICAL EXTERIOR TIME CLOCK "ETC" AND PHOTOSENSOR
- 3 PROVIDE SHUNT-TRIP TYPE CIRCUIT BREAKER.

PANEL SCHEDULE AND NOTES

IT IS THE ELECTRICAL CONTRACTORS RESPONSIBILITY TO PROPERLY BALANCE ALL BRANCH CIRCUITS BETWEEN THE PHASES OF THE SYSTEM, REGARDLESS OF CIRCUITING INDICATED.



REFERENCE NOTES

- (2) PROVIDE NEW WP SWITCHBOARD (NEW METER AND MAIN BREAKER). COMPLY WITH POWER COMPANY AND BUILDING DEPARTMENT REQUIREMENT.

GENERAL NOTES

- A. ALL EQUIPMENT NEW & EXISTING SHALL BE RATED NO LESS THAN 110% AVAILABLE AIC RATING AT POINT OF CONNECTIONS.
- AGENCY HAVING JURISDICTION.
- E. NO PIPING, DUCTS OR EQUIPMENT FOREIGN TO ELECTRICAL EQUIPMENT SHALL BE PERMITTED TO BE LOCATED WITHIN DEDICATED SPACE ABOVE THE ELECTRICAL EQUIPMENT AS REQUIRED.
- ACCESS TO WORK SPACE AND HEAD ROOM ABOVE ELECTRICAL EQUIPMENT.
- G. PROVIDE PERMANENT ENGRAVED LABEL TO EACH NEW EQUIPMENT.
- H. THE ELECTRICAL CONTRACTOR SHALL VISIT THE SITE AND MAKE A SURVEY OF EXISTING CONDITIONS WHICH MAY AFFECT OR BE AFFECTED BY THE WORK UNDER THIS SECTION BEFORE SUBMITTING HIS BID. REFERENCES MADE ON THE DRAWINGS TO EXISTING CONDITIONS SHALL BE SUBJECT TO VERIFICATION BY THE CONTRACTOR IN HIS SURVEY AND IN THE PROGRESS OF THE WORK.
- J. COORDINATE ALL CONCRETE TRENCHING/ CORING TO ENSURE THAT ANY UNDER SLAB UTILITIES, ETC., ARE NOT DAMAGED DURING FLOOR CUT. ANY DAMAGED TO BE REPAIRED AT TENANT EXPENSE, PRIOR APPROVAL AND COORDINATION WITH PROPERTY MANAGEMENT IS REQUIRED FOR ALL CONCRETE CUTTING.
- L. ABSOLUTELY NO FLEXIBLE CONDUIT IS PERMITTED IN DEMISING WALLS.
- M. CIRCUIT BREAKER SHALL BE BOLT ON TYPE.
- N. CONTRACTOR TO BE RESPONSIBLE TO FIELD VERIFY THE EXISTING ELECTRICAL SERVICE, TO INSURE THAT THE TOTAL CONNECTED LOAD DOES NOT EXCEED THE ELECTRICAL SERVICE. ANY AND ALL MODIFICATION AND ADDITION OF SCOPE SHALL
- O. ALL FUSES SHALL BE RK-1 REJECTION TYPE WITH TIME DELAY RATED FOR 200K AMPERES RMS SYMMETRICAL.
- P. PROVIDE REJECTION TYPE FUSE CLIPS FOR FUSIBLE DISCONNECTS.
- R. PRIOR TO BID TENANT IS REQUIRED TO VERIFY THAT THE LANDLORDS EXISTING
- S. PROVIDE SUPPLEMENTAL ELECTRODE AS REQUIRED EXCEPT IF A SINGLE ROD, PIPE OR PLATE GROUNDING ELECTRODE HAS A RESISTANCE TO EARTH OF 25 OHMS OR
- T. CONTRACTOR TO REPAIR AND/OR REFURBISH EACH EXISTING EQUIPMENT OR DEVICES TO A "LIKE-NEW" CONDITION ADEQUATE FOR TENANT'S USE AND COMPLIANT WITH BUILDING DESIGN PARAMETERS AND ALL GOVERNMENT REGULATIONS.
- PROVIDE FACH NEW PANEL BOARD AND CIRCUITS BREAKERS TO MATCH EXISTING INCLUDING AIC/FAULT CURRENT RATING. EACH NEW EQUIPMENT SHALL BE RATED NO LESS THAN 10% MORE OF THE AVAILABLE FAULT CURRENT AT POINT OF CONNECTIONS.

- B. ALL DISTANCE/FEEDER LENGTH SHOWN IN THE SINGLE LINE DIAGRAM ARE FOR VOLTAGE DROP CALCULATIONS ONLY. VERIFY ALL DISTANCES IN FIELD. CONTRACTOR TO FIELD MEASURE THE EXACT LOCATION AND DISTANCES FROM MAIN/DISTRIBUTION BOARD TO NEW PANEL LOCATION.
- C. ALL EQUIPMENT SHOWN AS DASHED LINE ARE EXISTING TO REMAIN. CONTRACTOR SHALL FIELD VERIFY EXISTING EQUIPMENT AND COMPLY WITH NEC, CEC AND ALL
- D. ALL ELECTRICAL EQUIPMENT AND MATERIALS SHALL BE UL LISTED, TESTED, LABELED AND INSTALLED BY A DULY AUTHORIZED ELECTRICAL TESTING AGENCY.
- F. PROVIDE AND MAINTAIN REQUIRED WORK SPACE, ADEQUATE ILLUMINATION,
- IT IS THE INTENT OF THESE DRAWINGS THAT THIS BE A COMPLETE AND OPERABLE ELECTRICAL INSTALLATION. ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THIS ENGINEER AS SOON AS DISCOVERED.
- K. CABLE TYPES AC AND NMC ARE NOT ACCEPTABLE. ALL WIRING MUST BE IN RIGID, GALVANIZED CONDUIT. FLEXIBLE CONDUIT IS PERMITTED FOR SHORT FINAL

1

- BE BY CONTRACTOR'S EXPENSE..
- Q. CONTRACTOR TO OBTAIN FAULT CURRENT FROM POWER COMPANY AND IN THE
- AVAILABLE ELECTRICAL SERVICE MEETS THE TENANTS TOTAL CONNECTED LOAD.

fb + h

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CLIENT Tenant Improvement for Joe's Grill 2912 Main Street Santa Monica, CA 90405



002-09 JOE'S GRIL





| November 2016 | November 2016 As-Built Drawings | CHANGES REVISIONS #1 |
|---------------|-----------------------------------|----------------------|
| 12/29/16 | ARB and SCHEMATIC DESIGN | |
| 1/23/17 | Consruction Drawings | |
| 1/30/2017 | REVISED ARB | |
| 2/20/2017 | BIDDING | |
| 6/27/2017 | PLAN CHECK | |
| | PLAN CHECK REVISIONS | |
| | CONSTRUCTION DOCUMENTS | |
| | | |

SINGLE LINE DIAGRAM & PANEL SCHEDULES

| | | | L | UMINAIRE SCHEDUL | .E | | | | 4 |
|-------------|------|---|---------------------------------------|--|--|-------|------|------|--|
| SYMBOLS | TYPE | DESCRIPTION | MANUFACTURE R | MODEL NO. | FINISH | WATTS | VOLT | LAMP | REMARKS |
| | А | 2'x4' EDGE-LIT PANEL | SYLVANIA | PANELF1A/040UNVD835/24G/WH | BY ARCHITECT | 40 | 120 | LED | SEE LUMINAIRE NOTES. DIMMING: 0-10V |
| | AE | SAME AS FIXTURE TYPE A, PROVIDE A MINIMUM 90 MINUTE EMERGENCY BACK-UP BATTERY | SYLVANIA | PANELF1A/040UNVD835/24G/WH EL | BY ARCHITECT | 40 | 120 | LED | SEE LUMINAIRE NOTES. DIMMING: 0-10V |
| | В | 1'X4' EDGE-LIT PANEL | SYLVANIA | PANELF1A/032UNVD835/14G/WH | BY ARCHITECT | 32 | 120 | LED | SEE LUMINAIRE NOTES. |
| | BE | SAME AS FIXTURE TYPE B WITH EMERGENCY BATTERY BACK-UP | SYLVANIA | ZL1N L48 3000LM FST 120 40K 80CRI E7W | BY ARCHITECT | 32 | 120 | LED | SEE LUMINAIRE NOTES. |
| ⊢ ∳- | С | EXTERIOR WALL SCONCE | BARN LIGHT ELECTRIC | ATOMIC TOPLESS STREAMLINE | GALVANIZED METAL CAGE | 17 | 120 | LED | SEE LUMINAIRE NOTES. |
| ⊗ | x | SINGLE FACE, RECESSED MOUNTED EDGE-LIT ACRYLIC BLADE EXIT LIGHT WITH 90 MIN. EMERGENCY BACK-UP BATTERY | THE EXIT LIGHT COMPANY OR EQUAL | ELRT-G OR EQUAL | BRUSHED ALUMINUM HOUSING, GREEN LETTER | 3 | 120 | LED | SEE LUMINAIRE NOTES. |

LUMINAIRE NOTES:

- 1. VERIFY ELECTRICAL REQUIREMENT OF EACH LIGHTING FIXTURES WITH THE EQUIPMENT SUBMITTAL.
- 2. NO SUBSTITUTION WILL BE ACCEPTABLE WITHOUT PRIOR WRITTEN APPROVAL FROM THE OWNER/ARCHITECT.
- 3. ALL LIGHTING FIXTURES AND ACCESSORIES SHALL BE ULLISTED AND APPROVED BY THE BUILDING DEPARTMENT.
- 4. ELECTRICAL CONTRACTOR TO PROVIDE LIGHT FIXTURE, TRACK, LAMP, POWER FEEDS, CONNECTORS & MISC. ACCESSORIES AND HARDWARE AS REQ'D. FOR INSTALLATION.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLAN PLANS & DETAILS FOR MORE INFORMATION.
- VERIFY COMPATIBILITY OF LAMP SPECIFIED WITH THE LIGHT FIXTURE & BALLAST TYPE PROVIDED BY THE MANUFACTURER/OWNER PRIOR TO BIDDING OR ORDERING NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
- APPROVED EQUAL SUBSTITUTIONS SHALL BE UL LISTED.
- 8. REFER TO LIGHTING PLAN FOR FIXTURES EQUIPPED W/ MINIMUM 90 MINUTES MINIMUM EMERGENCY BACK-UP BATTERY.
- 9. LIGHT FIXTURE INSTALLED WITHIN THE FOOD SERVICE AREA SHALL BE SHATTERPROOF AS REQUIRED.
- 10. PROVIDE ENERGY SAVING ELECTRONIC BALLAST.
- 11. VERIFY AND COORDINATE EXACT LOCATION, QUANTITY, TRIM AND OTHER OPTIONS WITH OWNER/ARCHITECT.
- 12. VERIFY AND COORDINATE CEILING TYPE WITH THE ARCHITECTURAL DRAWINGS.
- 13. PROVIDE DIMMING BALLAST TO EACH FLUORESCENT LIGHTING FIXTURE CONTROLLED BY A DIMMER SWITCH.
- 14. EXIT AND EMERGENCY LIGHT FIXTURE TYPES AND LOCATIONS ARE SUBJECT TO BUILDING DEPARTMENT AND LANDLORD APPROVAL.
- 15. ALL LIGHT FIXTURES, EQUIPMENT, WIRING METHODS, ETC., WITH IN CEILING RETURN AIR PLENUM SHALL COMPLY WITH CEC, AND ANY ADDITIONAL BUILDING DEPARTMENT REQUIREMENTS. VERIFY IF ANY ADDITIONAL REQUIREMENTS WITH BUILDING DEPARTMENT AND TENANT'S ARCHITECT PRIOR TO BID.
- 16. VERIFY AND COORDINATE EXACT QUANTITY, LOCATION, MOUNTING AND ALL OTHER OPTIONS OF EACH LIGHTING FIXTURES WITH THE ARCHITECTURAL DRAWINGS.

| TALLED AND ACCOUNTS | | i di | - E | T | | | | | | | | | | | | | | |
|----------------------------|--------------|----------------------------|-------------------------------|--|--------------|--------------|--|--|--------------|---------------------|-------------|--|--|--------------|--|--------------|------------------|--|
| EQUIPMENT SCHEDULE | - | | 유 | | | | - | | A | | Ter corner | | | | | | | |
| QUIPMENT | T | 150 | 13 JS | PLUME | | | | | | | ELECTRICA | L | | г | | | | T . |
| | | | UNDED 1875 | | | UEL GA | | | ASTE | | - | | | | | CONN. | | |
| EM DESCRIPTION | QTY | MANUFACTURE/MODEL NO. | WE MARKS | HW | CW | CONN | | DIR. | I.W. | REMARKS | VOLT. | KW | AMPS | HP | PH | DIR. | C.O. | REMARKS |
| 1 HOT WATER HEATERS | 2 | NORITZ #NCC1991-OD 09/ | AY FLUMBER (UN ROOF) | 1 | | 3/4" | 199 EA | | 1" | VERIFY W/PLUMBER | 120 | | 4.0 | | 1 | Х | | ON ROOF, VERIFY W/G.C. |
| 2 MOP SINK W/FAUCET | 1_1_ | | | | 1/2" | | | 2* | | TRAP BELOW FLOOR | | | | | | | | |
| 3 SPARE NUMBER | | 170 | 3LD-0344 | <u> </u> | | | | | | | | | | | | | | |
| 4 MOP/BROOM HANGER | 1 | ADVANCE #K-242 | | 1 | | | | | | | | | | - | | | | |
| 5 CHEMICAL SHELF | 1 | CUSTOM ST/ST | | L | | | | | | | | | | | | | | |
| 6 SPARE NUMBER | 1 | | | | | | | | | | | | | | | | | |
| 7 PREP TABLE W/SINK | 1 | GSW #SE18181R | | | | | | | 1-1/2 | EXTEND I.W. TO F.S. | 120 | | 11.8 | | 1 | | Х | WALL MOUNTED DCO |
| 8 SINK FAUCET | 1 | FISHER #3312 | | 1/2" | 1/2" | | | | | | | | | | | | | |
| 9 WALL SHELVES | 2 | GSW #WS-W1442 | | T | | | | | | | | | | | | | | |
| O AIR CURTAIN | 1 | MARS #STD236-1U | | | | | | | | | 120 | | 5.1 | | 1 | Х | | WIRE THRU DOOR ACTIVATED MICRO- |
| 11 SPARE NUMBER | | MAKS #310200 TO | | † | | | | | | | | | | | | | | |
| 12 SPARE NUMBER | - | | | | | | | | | | | | | | | | ę | |
| | 1 | ODW BUDGEST | | 1/2" | 1/2" | | | 1-1/2" | | DIRECT WASTE | | | | | | | | |
| 3 HAND SINK | | GSW #HS1615SS | | 11/5 | 11/4 | - | | 2" | - | DIRECT WASTE | — | | | | | | | |
| 4 THREE COMPARTMENT SINK | 1 1 | GSW #SE18183D | | - | | - | | | | OMEGI WASIE | | | | | | | | |
| 4A WALL SHELVES | 2 | GSW #WS-W1436 | | + | 1- | | | | | | | | - | | | | | |
| 4B POT/UTENSIL RACK | 1 | ADVANCE #GW-84 | | - | - | | | | | | - | | | | | | | |
| 5 PRE RINSE FAUCET | 1 | T & S #B-0133-ADF12-B | | 1/2" | 1/2" | | | | ├ | | | | | | | | X | NEW E DOD CORD & DIEC |
| 6 REACH-IN FREEZER | 1_1_ | TRUE #T-72F | | - | | | | | | | 120 | | 12.0 | | 1 | | | NEMA 5-20P, CORD & PLUG |
| 7 REACH-IN REFRIGERATOR | 1_1_ | TRUE #T-72 | | - | | | | ļ | | | 120 | | 12.0 | | 1 | | X | NEMA 5-20P, CORD & PLUG |
| 8 STORAGE SHELVING | 1 | TITAN SERIES | | - | | ļ | ļ | | <u> </u> | | | - | | | | | | |
| 9 RRFAD RACK | 1 | | BY OWNER | 1 | | | | | ļ | | | ļ | | | | | | |
| TWO OPEN BURNER RANGE | 1 | VULCAN #VCRH12 | | | | 3/4" | 50 | | <u> </u> | | | | | | | | | |
| OA QUICK DISCONNECT | 1 | DORMONT #1675KIT2S-48 | | | | | | | | | | | | | | | | |
| 1 EXHAUST FAN SYSTEM | 1 LOT | | BY G.C. | T | | | | | | | 240 | | * | | 3 | X | | ON ROOF, VERIFY W/G.C. |
| 2 EXHAUST HOOD | 1 | CAPTIVE AIRE | | T | | | | | | | 120 | | 6.0 | | 1 | X | | HOOD LIGHTS. WIRE THUR SWITCH |
| 23 FIRE SUPPRESSION SYSTEM | 1 | ANSUL #R-102 | | T | | | | | | | | | | | | | | |
| 24 GRIDDLE RANGE | 1 | VULCAN #48RRG | | 1 | | 3/4" | 82.5 | | | | 120 | T | 1.0 | | 1 | | Х | NEMA 5-15P, CORD & PLUG |
| 4A QUICK DISCONNECT | + + | DORMONT #1675KIT2S-48 | | 1- | 1 | | - | - | | | | | 1 | | | | | |
| 25 TOASTER | 1 | PRINCE CASTLE #TX-240 | | + | † | | | | 1 | | 240 | 1 | 19.2 | | 1 | | Х | NEMA L6-30P, CORD & PLUG. FIXT. |
| 26 WORKTABLE | 1 | | ***************************** | + | | <u> </u> | - | | 1 | | | 1 | | | | | | |
| | - | GSW #WT-PB3030 | | + | +- | | | - | | | 120 | | 8.6 | 1 | 1 | | Х | SELF-CONTAINED, FIXT, MTD. OUTLET |
| 27 REFRIGERATED TABLE | 1 | TRUE #TSSU~48-12 | | + | | 7/4" | 110 | | | | 1 120 | † | 1 | 1 | <u> </u> | † | | |
| 28 FRYER | 1 | FRYMASTER #PMJ135 | | +- | | 3/4 | 110 | | + | | | | | | | - | | |
| 8A QUICK DISCONNECT | 1-1- | DORMONT #1675KIT2S-48 | | + | ┼ | | | | ┼ | | + | | | | 1 | - | × | SELF-CONTAINED |
| 29 SHORTY REFRIGERATOR | 1 | TRUE #TRCB-60 | | +- | | | | | | | 120 | | 8.1 | + | - | | ^ - | SELF-CONTAINED |
| 30 SPARE NUMBER | | | | + | | | - | | | | | | | - | | - | | |
| 31 WALL SHELVES | 2 | GSW #WS-W1496 &W1448 | | | | | | | | | | | | | | | | |
| 32 WORKTOP FREEZER | 2 | TRUE #TWT-48F | | - | - | <u> </u> | | | | | 120 | | 6.1 | | 1 | | X | SELF-CONTAINED |
| 33 FRY DUMP | 1 | HATCO #GRFFB (14" CLEAR) | 1 | 4- | - | | | ļ | + | | 120 | | 6.3 | | 1 | | X | NEMA 5-15P, CORD & PLUG |
| 34 LIQUID DISPENSER | 1_1_ | SURESHOT | BY OWNER | | | - | ļ | | | | 120 | | 1.0 | | 1 | | X | NEMA 5-15P, CORD & PLUG |
| 35 SPINDLE MIXER | 1 | HAMILTON BEACH ∯94950120 | | | | | | ļ | | | 120 | - | 5.2 | | 1 | _ | X | |
| 36 ICE MACHINE | 1 | MANITOWOC #ID-1202A | | | 1/2" | | | | | EXTEND I.W. TO F.S. | 240 | | 25.0 | | 1 | X | | |
| 37 SODA/ICE DISPENSER | 1 | | BY SODA VENDOR | | 1/2" | | | | 1" | EXTEND I.W. TO F.S. | 120 | | 5.0 | | 1 | | X | VERIFY W/VENDOR |
| 38 BAG N BOX SYSTEM | 1 | | BY SODA VENDOR | | | | | | | | 120 | | 10.0 | | 1 | L | X | VERIFY W/VENDOR |
| 39 CARBONATOR | 1 | | BY SODA VENDOR | | | | | | | | | | | | | | | |
| O WATER FILTER | 1 | EVERPURE #PF-7FCS | | T | 1/2" | | | | | | | | | | | | | |
| 41 OVERSHELVES | 1 | TRUE #883003 | 1 | T | T | | | T | | | | | | | | | | |
| 2 FOOD WARMER | 1 | WELLS #SC-11 | | 1 | T | T | | T | T | | 120 | 1 | 13.7 | | 1 | | Х | NEMA 5-15P, CORD & PLUG |
| 3 WORKTABLE | 1 | GSW #WT-PB3048 | | 1 | 1 | 1 | 1 | 1 | | | | T | | T | Π | T | T | |
| 4 FRONT COUNTER | + ; | CUSTOM ST/ST | | 1- | 1 | † | 1 | 1 | T | | 1 | | 1 | T | | T | | |
| 15 EMPLOYEE LOCKERS | 1 | GSW #ELS-5DR | | + | 1 | † | † | T | 1 | | 1 | T | | 1 | Π | T | T | |
| 6 SPARE NUMBER | + | Joon BEED JOH | | + | + | | t | † | 1 | | | 1 | T | 1 | | T | 1 | |
| | + | | DV VENDOR | + | + | † | | | 1 | | | 1 | 1 | 1 | | 1 | 1 | |
| 47 CO2 TANK | 1-1- | Augustus or for | BY VENDOR | +- | + | + | + | | + | | +- | 1 | | | | 1 | 1 | |
| 48 HOOD ENCLOSURE | 1_1_ | CUSTOM ST/ST | | + | + | + | + | | + | | 120 | + | 5.0 | + | 1 | + | X | DEDICATED CIRCUIT |
| 49 POS TERMINALS | 1 | | DY OWNER | 1 | | | | I | | | | | 0.0 | | ' | 1 | | COMMUNICATION CABLE |
| | + | | | + | + | + | | | + | | J-BOX | + | + | + | + | + | | COMMONICATION CAGLE |
| 50 WALL FLASHING | 1 | CUSTOM ST/ST | | + | + | | | | + | | | + | + | + | + | + | | |
| 51 PASS WINDOW AND SHELF | 2 | G.C GENERAL CONTRACTOR, OW | I | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |

KITCHEN EQUIPMENT SCHEDULE NOTES:

F.D. - FLOOR DRAIN, F.S. - FLOOR SINK, R.D. - ROOF DRAIN, F.T. - FLOOR TROUGH

- 1. VERIFY ELECTRICAL REQUIREMENT OF EACH KITCHEN EQUIPMENT WITH THE EQUIPMENT SUBMITTAL.
- 2. VERIFY AND COORDINATE EXACT LOCATION AND POINT OF CONNECTION WITH THE KITCHEN EQUIPMENT DRAWINGS.
- 3. VERIFY AND COORDINATE PLUG/RECEPTACLE TYPE WITH THE EQUIPMENT SUBMITTAL.

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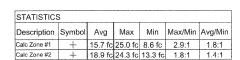
CLIENT Tenant Improvement for Joe's Grill 2912 Main Street Santa Monica ,CA 90405

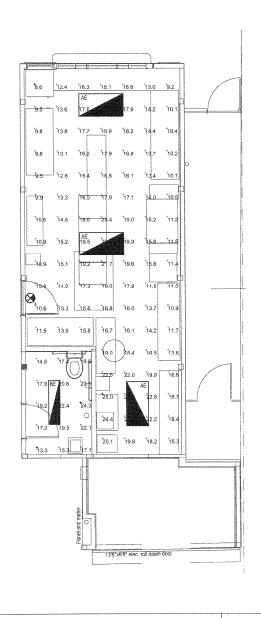


| November 2016 | November 2016 As-Built Drawings | CHANGES REVISIONS # |
|---------------|---------------------------------|---------------------|
| 12/29/16 | ARB and SCHEMATIC DESIGN | |
| 1/23/17 | Consruction Drawings | |
| 1/30/2017 | REVISED ARB | |
| 2/20/2017 | BIDDING | |
| 6/27/2017 | PLAN CHECK | |
| | PLAN CHECK REVISIONS | |
| | CONSTRUCTION DOCUMENTS | |

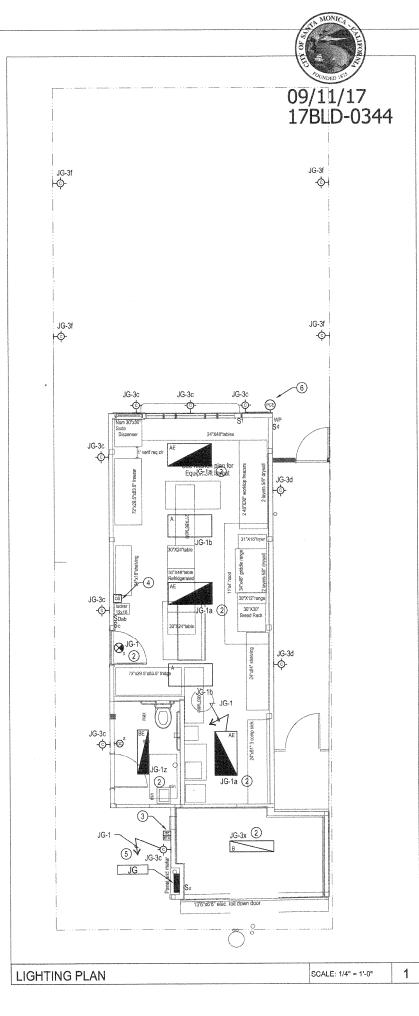
LUMINAIRE & KITCHEN EQUIPMENT SCHEDULE

E0.4





EMERGENCY LIGHTING PHOTO CALC



GENERAL NOTES:

- A. ALL LIGHTING FIXTURES WITHIN PREPARATION, FOOD SERVICE AND KITCHEN AREA SHALL BE SHATTERPROOF AS REQUIRED. VERIFY LOCATION OF EACH LIGHT FIXTURE BEFORE ROUGH-IN. PROVIDE AS REQUIRED.
- B. PROVIDE HVAC CONTROL REQUIREMENT. REFER TO MECHANICAL DRAWING FOR INFORMATION.
- C. COORDINATE AND VERIFY ALL ELECTRICAL WORK SHOWN ON THE PLAN WITH ARCHITECT. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES PRIOR TO START OF THE WORK
- D. ALL RACEWAY EXPOSED WIDELY TO DIFFERENT TEMPERATURES SHALL PROVIDE EXPANSION FITTINGS AND BE SEALED TO PREVENT CIRCULATION OF WARM TO COLD AIR. (SECTION 300-7 (A) & (B)
- E. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO OBTAIN ALL ARCHITECTURAL AND CONSULTANT DRAWINGS AND INCLUDE IN HIS BID ALL THE ELECTRICAL CONNECTIONS, EQUIPMENT, ACCESSORIES, CONDUITS, BOXES, ETC., THERE INDICATED TO BE BY ELECTRICAL CONTRACTOR.
- F. NO PIPING, DUCTS OR EQUIPMENT FOREIGN TO ELECTRICAL EQUIPMENT SHALL BE PERMITTED TO BE LOCATED WITHIN THE DEDICATED SPACE ABOVE THE ELECTRICAL EQUIPMENT. KEEP 3 FEET CLEARANCE IN FRONT OF ELECTRICAL EQUIPMENT.
- G. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL J-HOOKS, CONDUITS AND OTHER EQUIPMENT REQUIRED BY DATA CABLING CONTRACTOR. OBTAIN THESE REQUIREMENT BEFORE SUBMITTING THE BID.
- H. ALL ELECTRICAL CIRCUIT WIRING SHALL BE PROVIDED WITH GROUND WIRE.
- PHOTOSENSORS SHALL BE LOCATED SO THAT THEY ARE NOT READILY ACCESSIBLE TO UNAUTHORIZED PERSONNEL, AND THE LOCATION WHERE CALIBRATION ADJUSTMENTS ARE MADE TO AUTOMATIC DAYLIGHTING CONTROLS SHALL NOT BE READILY ACCESSIBLE TO UNAUTHORIZED PERSONNEL.
- J. AUTOMATIC DAYLIGHTING CONTROLS SHALL PROVIDE FUNCTIONAL MULTI-LEVEL LIGHTING HAVING AT LEAST THE NUMBER OF CONTROL STEPS SPECIFIED IN TABLE 130. 1-A..
- K. FOR EACH SPACE, THE COMBINED ILLUMINANCE FROM THE CONTROLLED LIGHTING AND DAYLIGHT SHALL NOT BE LESS THAN THE ILLUMINANCE FROM CONTROLLED LIGHTING WHEN NO DAYLIGHT IS AVAILABLE.
- L. IN AREAS SERVED BY LIGHTING THAT IS DAYLIGHT CONTROLLED WHEN THE ILLUMINANCE RECEIVED FROM THE DAYLIGHT IS GREATER THAN 150 PERCENT OF THE DESIGN ILLUMINANCE RECEIVED FROM THE GENERAL LIGHTING POWER IN THAT DAYLIGHT ZONE SHALL BE REDUCED BY A MINIMUM OF 65 PERCENT.

M. LIGHTING:

IN EVERY ROOM AND AREA IN WHICH FOOD IS PREPARED, PROCESSED OR PACKAGED, OR IN WHICH UTENSILS ARE CLEANED, SUFFICIENT NATURAL OR ARTIFICIAL LIGHTING SHALL BE PROVIDED TO PRODUCE THE FOLLOWING LIGHT INTENSITY WHILE THE AREA IS IN USE:

- AT LEAST 10-FOOT CANDLES AT A DISTANCE OF 30 INCHES ABOVE THE FLOOR IN WALK-IN REFRIGERATION UNITS AND DRY FOOD STORAGE AREAS.
- b. AT LEAST 20-FOOT CANDLES WHERE FOOD IS PROVIDED FOR CONSUMER SELF-SERVICE, WHERE FRESH PRODUCE OR PREPACKAGED FOODS ARE SOLD OR OFFERED FOR CONSUMPTION, INSIDE EQUIPMENT SUCH AS REACH-IN AND UNDER-COUNTER REFRIGERATORS, HANDWASHING AREAS, WAREWASHING AREAS, EQUIPMENT AND UTENSIL STORAGE AREAS, AND IN TOILET ROOMS.
- c. AT LEAST 50-FOOT CANDLES AT SURFACES WHERE A FOOD EMPLOYEE IS WORKING WITH FOOD OR WITH UTENSILS, EQUIPMENT SUCH AS KNIVES, SLICERS, GRINDERS, OR SAWS WHERE EMPLOYEE SAFETY IS A FACTOR, AND IN OTHER ROOMS DIRING PERIODS OF CLEANING, LIGHT BUILDS SHALL BE SHIELDED, COATED, OR OTHERWISE SHATTER-RESISTANT IN AREAS WHERE THERE ARE IN-PREPACKAGED READY-TO-EAT FOODS, CLEAN EQUIPMENT, UTENSILS, AND LINENS, OR UNWRAPPED SINGLE-USE ARTICLES.
- N. ALL LIGHTING FIXTURES/EQUIPMENT SHALL BE U.L. LISTED, LABELED AND APPROVED BY THE CITY.
- O. ANY EQUIPMENT OR MATERIALS INSTALLED IN PLENUM CEILING SHALL BE UL APPROVED AND COMPLY WITH LOCAL CITY CODE FOR USE IN THIS LOCATION.
- P. STORE SIGN/S AND ALL EXTERIOR LIGHTING SHALL BE CONNECTED TO A SEVEN DAY, I WENTY-FOUR HOUR EXTERNAL TIME CLOCK (ETC).
- Q. ALL INTERIOR LIGHTING CIRCUITS SHALL BE CONNECTED TO A SEVEN DAY, TWENTY-FOUR HOUR INTERNAL TIME CLOCK (ITC).
- R. $\,\,$ EXHAUST FAN IN THE RESTROOM SHALL BE ACTIVATED BY THE LIGHT SWITCH.

REFERENCE NOTES:

- (1) SWITCHES TO BE MOUNTED A MAXIMUM OF 46" AFF TO CENTERLINE. ARRANGE SWITCHES IN TWO ROWS OF GANGED BOXES AS REQUIRED. COORDINATE SWITCH LOCATIONS WITH THE ARCHITECT PRIOR TO INSTALLATION. REFER TO ARCHITECTURAL SHEETS FOR MORE INFORMATION.
- 2 PROVIDE UNCONTROLLED HOT WIRE TO EACH EMERGENCY AND EXIT LIGHTING AS REQUIRED.
- 3 TIME CLOCK AND LIGHTING CONTACTOR CABINET: PROVIDE INTERLOCK WIRING FROM OVERRIDE SWITCH TO TIME CLOCK CONTROLLER. VERIFY AND COORDINATE EXACT LOCATION WITH OWNER/ARCHITECT.
- 4 PROVIDE MIN. 2 HR OVERRIDE SWITCH. VERIFY AND COORDINATE EXACT LOCATION WITH OWNER/ARCHITECT.
- 5 PROVIDE CONNECTION TO EXTERIOR TIME CLOCK AND PHOTOCELL
- (6) EXTERIOR PHOTOSENSOR SWITCH. VERIFY AND COORDINATE EXACT LOCATION AT FIELD. REFER TO PANEL SCHEDULE ON SHEETN E0.3 FOR ADDITIONAL INFORMATION.

fb + h

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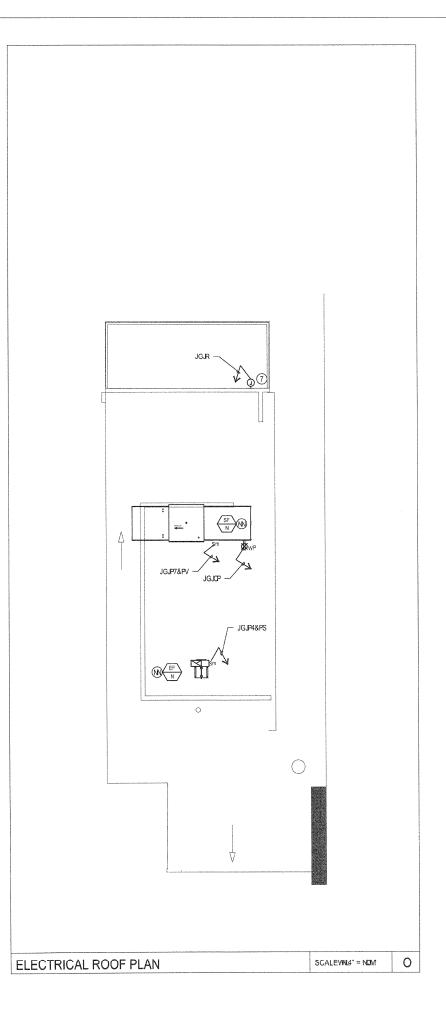


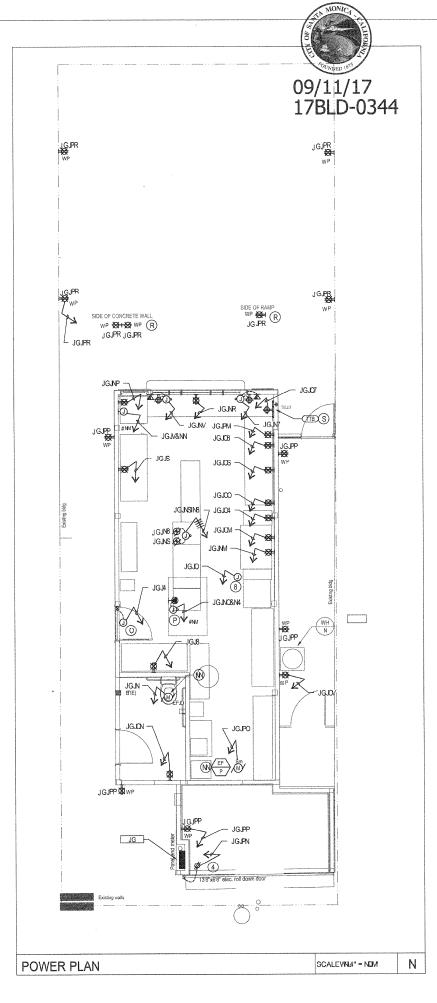
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LIGHTING PLAN & EMERGENCY PHOTO

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GENERAL NOTESW

- A. CONTRACTOR TO VERIFY AND COORDINATE VOLTAGEI POWER REQUIREMENTI INTERLOCK CONNECTIONS AND OTHER REQUIREMENT OF EACH KITCHEN AND REFRIGERATION EQUIPMENT BY OTHERS WITH THE FINAL EQUIPMENT SCHEDULEI SUBMITTAL AND MANUFACTURERIS RECOMMENDED INSTALLATIONS BEFORE POWER CONNECTION. IMMEDIATELY INFORM THE OWNERIARCHITECT OF ANY DISCREPANCIES.
- B. CONTRACTOR TO CONDUCT AND IMPLEMENT COMPREHENSIVE AND COMPLETE TESTING OF EACH ELECTRICAL AND KITCHEN EQUIPMENT BEFORE FINAL POWER CONNECTIONS.
- PROVIDE POWER TO EACH MECHANICAL EQUIPMENT AS SHOWN IN THE MECHANICAL DRAWINGS INCLUDING CONTROL WIRING AND INTERLOCK CONNECTIONS.
- VERIFY AND COORDINATE EXACT QUANTITY! LOCATION AND ELECTRICAL REQUIREMENT OF EACH MECHANICAL AND PLUMBING EQUIPMENT WITH THE MECHANICAL AND PLUMBING DRAWINGS.
- CONTRACTOR TO PROVIDE AND COORDINATE ALL ELECTRICAL WORK SHOWN ON ARCHITECT PLANS. NOTIFY
 THE ARCHITECT OF ANY DISCREPANCIES PRIOR TO START OF THE WORK
- F. ALL RACEWAY EXPOSED WIDELY TO DIFFERENT TEMPERATURES SHALL PROVIDE EXPANSION FITTINGS AND BE SEALED TO PREVENT CIRCULATION OF WARM TO COLD AIR. 经ection PMM7 (4) & 由))
- G. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO OBTAIN ALL ARCHITECTURAL AND CONSULTANT DRAWINGS AND INCLUDE IN HIS BID ALL THE ELECTRICAL CONNECTIONSI EQUIPMENTI ACCESSORIESI CONDUITSI BOXESI ETC.I THERE INDICATED TO BE BY ELECTRICAL CONTRACTOR.
- H. NO PIPINGI DUCTS OR EQUIPMENT FOREIGN TO ELECTRICAL EQUIPMENT SHALL BE PERMITTED TO BE LOCATED WITHIN THE DEDICATED SPACE ABOVE THE ELECTRICAL EQUIPMENT. KEEP PFEET CLEARANCE IN FRONT OF ELECTRICAL PANEL BOARD AND EQUIPMENT.
- ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL J.HOOKSI CONDUITS OR OTHER REQUIRED EQUIPMENT REQUIRED BY DATA CABLING CONTRACTOR. OBTAIN THESE REQUIREMENTS BEFORE SUBMITTING THE BID.
- ALL ELECTRICAL CIRCUIT WIRING SHALL BE PROVIDED WITH GROUND WIRE.
- K. CONTRACTOR SHALL VERIFY EXACT LOCATIONI PLUG TYPE AND ALL OTHER REQUIREMENT OF EACH KITCHEN EQUIPMENT WITH THE KITCHEN DRAWINGSICONSULTANT AND EQUIPMENT SUBMITTAL.
- PROVIDE GFCI TYPE RECEPTACLE TO EACH OUTLET INSTALLED IN THE KITCHEN AND FOOD PREPARATION AREA
 AS REQUIRED.
- M. VERIFY AND COORDINATE EXACT LOCATIONI QUANTITY AND RECEPTACLEIPLUG TYPE WITH KITCHEN CONSULTANT DRAWING AND EQUIPMENT SUBMITTAL.
- N. PROVIDE SHUNT TRIP TYPE CIRCUIT BREAKER TO EACH CIRCUIT SERVING KITCHEN EQUIPMENT UNDER THE COMMERCIAL KITCHEN HOOD AS REQUIRED.
- PROVIDE ELECTRONIC INTERLOCK BETWEEN HOOD EXHAUST FAN AND MAKEJUP AIR UNIT
- PROVIDE AIR CURTAIN IN THE DELIVERY DOOR ACTIVATED BY A MICRO DOOR SWITCH.

REFERENCE NOTESW

- (N) POWER SUPPLY FOR COMPUTER AND CASH REGISTER SHALL BE WITH ISOLATED GROUND. REFER TO ARCHITECTURAL ELEVATION DRAWINGS FOR MOUNTING DETAIL AND EXACT LOCATION.
- PROVIDE POWER FOR AIR CURTAIN. CONTRACTOR SHALL PROVIDE MICROSWITCH FOR DOOR ACTIVATED. REFER
 TO MANUFACTURER CUT SHEET FOR INTERLOCKING REQUIREMENTS. COORDINATE AND VERIFY EXACT LOCATION
 WITH ARCHITECT.
- P STUBJUP, VERIFY AND COORDINATE EXACT LOCATION WITH OWNERIARCHITECT.
- 4) PROVIDE CEILING MOUNTED OUTLET FOR ROLLJUP DOOR POWER. VERIFY AND COORDINATE EXACT LOCATION WITH ARCHITECT AND EQUIPMENT SUBMITTAL.
- R VERIFY EXACT LOCATION WITH OWNERIARCHITECT AND AT FIELD.
- § PROVIDE NEW TELEPHONE TERMINAL BOARD. VERIFY AND COORDINATE EXACT LOCATION WITH OWNERIARCHITECT.
- PROVIDE WEATHER PROOF J.BOX IN ACCESSIBLE LOCATION AND CONNECT TO STORE SIGN AS REQUIRED. VERIFY REQUIREMENT WITH THE ARCHITECT AND SIGN CONTRACTOR. PROVIDE DEDICATED NEUTRAL AND GROUND FOR ALL SIGNS. CONTRACTOR SHALL PROVIDE LICHTING CONTROL CONTACT AND TIMER &TC). COORDINATE EXACT LOCATION WITH ARCHITECT. PROVIDE NOW FOR SIGN DISCONNECTING MEANS.
- (8) REFER TO MECHANICAL LEXHAUST HOOD DRAWING FOR LIGHT AND CONTROL CONNECTION AND REQUIREMENT.
- TELEPHONE AND COMPUTER DATA OUTLET. PROVIDE N' CONDUIT TELEPHONEIDATA CABLING WITH CAT.RCABLES AND ROUTE BACK TO TELEPHONE BACKBOARD. VERIFY EXACT QUANTITY WITH CABLE INSTALLER AND OR ARCHITECTIOWNER
- (NA) PROVIDE NEW WP SWASI RWAFI OP DISCONNECT SWITCH. PROVIDE N'C JO#S + N#NMGND.
- (N) VERIFY AND COORDINATE EXACT LOCATION WITH MECHANICAL DRAWINGS AND AT FIELD.

fb+b

fonda-bonardi & hohm archite

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CLIENT
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90405



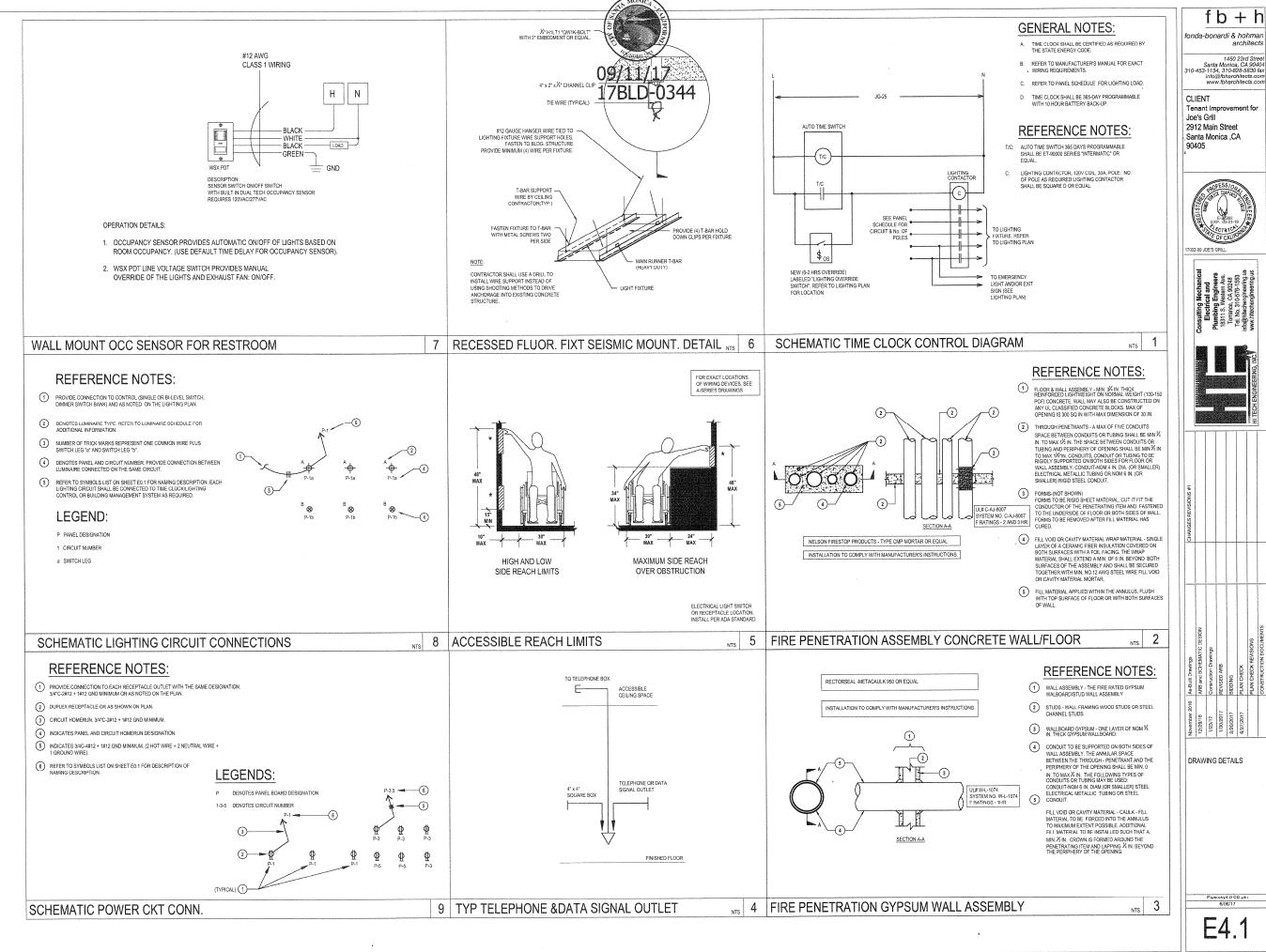
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POWER & ELECTRICAL ROOF PLAN

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| INDOOR LIGHTING CERTIFICATE OF COMPLANCE CERTIFICATE OF COMPLANCE Freet Name: JOE'S GRILL A General Information Climate Zone: O Unconditioned Floor Area: 487 O Deservation Individual Individu | TATE OF CALIFORNIA | | | | | | | | | | | | |
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| Phase of Construction: Complete Building | | | | | | | | | | | | | - |
| Method of Compliance: Complete Building Area Category Indicated | | | - | | | | - | | | | | | - |
| Project Address: 2912 MAIN STREET B. Lighting Compliance Documents (select yes for each document included) For detailed instructions on the use of this and all Energy Efficiency Standards compliance documents, refer to the Nonresidential Manual published by the California Energy Commission. YES NO COMP. DOC. TITLE NRCCL110-12. | | | | | | | | | | | | | |
| B. Lighting Compliance Documents (select yes for each document included) For detailed instructions on the use of this and all Energy Efficiency Standards compliance documents, refer to the Nonresidential Manual published by the California Energy Commission. YES NO COMP. DOC. TITLE I NRCC-LTI-02-E Certificate of Compliance. All Pages required on plans for all submittals. INCC-LTI-02-E Lighting Controls, Certificate of Compliance, and PAF Calculation. All Pages required on plans for all submittals. INCC-LTI-02-E Indoor Lighting Power Allowance INCC-LTI-03-E Indoor Lighting Fower Allowance INCC-LTI-03-E Indoor Lighting Existing Conditions ARCC-LTI-04-E Indoor Lighting Existing Conditions CALIFORNIA NRCC-LTI-06-E Indoor Lighting Existing Conditions STATE OF CALIFORNIA INDOOR LIGHTING CERTIFICATE OF COMPLIANCE CALIFORNIA NRCC-LTI-04-E Queened buttle CALIFORNIA NRCC-LTI-04-E QUEEnergy Standards CALIFORNIA NRCC-LTI-05-E QUEEnergy Standards CRALIFORNIA NRCC-LTI-05-E QUEEnergy Standards CALIFORNIA NRCC-LTI-05-E QUEEnergy Standards CRALIFORNIA NRCC-LTI-05-E Q | | | | Lomplete Buil | aing | | 100 | Area Category | / | 14 | Tallored | | |
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| this compliance document. This section is used to determine if greater than 0.3 watts of portable lighting is planned for any office Fill out a sparate line for each different office. Small offices that are typical (having the same general and portable lighting) may be grouped together. This allows shall not be traded between offices having different lighting systems. Office Portable Luminaire Schedule Office Portable Luminaire Schedule 1 2 3 4 5 5 6 7 8 9 9 10 Installed Watts If 606 5 Section 3, enter | NATION CONTROL OF CONT | NG 0 0416) PLIANCE SRILL Luminaires in De filled out O locument. d to determin line for each d between of miniaire Sche 1 | Offices NLY for e if grea differen fices ha | - Exception to portable lumi ter than 0.3 w office. Small ring different | o Section 140 naires in office ratts of porta offices that a lighting syste Office Insta | ble lighti are typica ms. alled Port 4 stalled ortable | ing is paid (have table L | olanned for an ing the same uminaire W/f | y office general and po t ² 7 If G06 ≤ 0.3, enter | d portable lumi ortable lighting) | 6/5/2017 naires shall be documented may be grouped together. Office Location 9 | OMMISSION NRCC- (Pag on next p | LTI e 4 |
| this compliance document. This section is used to determine if greater than 0.3 watts of portable lighting is planned for any office Fill out a sparate line for each different office. Small offices that are typical (having the same general and portable lighting) may be grouped together. This allows shall not be traded between offices having different lighting systems. Office Portable Luminaire Schedule Office Portable Luminaire Schedule 1 2 3 4 5 5 6 7 8 9 9 10 Installed Watts #606 \$ 9 10 | NDOOR LIGHTI BECHROLT-TUTE (Review CERTIFICATE OF COMI Indoor Lighting Project Name: JOE'S G G. Installed Portable I This section shall this compliance in this compliance of this compliance of this compliance of the compliance compliance of the compliance of the compliance compliance of the compliance compliance of the compliance com | NG 10 0016) PLIANCE SRILL Luminaires in the filled out O tocument. d to determin line for each the between of uminaire Sche 1 | Offices NLY for e if grea differen fices har dule | - Exception to cortable lumin ter than 0.3 w office. Small ring different 2 | o Section 140 naires in office ratts of porta offices that a lighting syste Office Insta | ble lightiere typica ems. elled Port 4 stalled ortable minaire | ing is paid (have table L | olanned for an ing the same uminaire W/f | y office general and po t ² 7 If G06 ≤ 0.3, enter | d portable lumi ortable lighting) 8 | 6/5/2017 naires shall be documented in may be grouped together. Office Location 9 | OMMISSION NRCC- (Pag I on next p This allow | LTI e 4 |
| this compliance document. This section is used to determine if greater than 0.3 watts of portable lighting is planned for any office Fill out a separate line for each different office. Small offices that are typical (having the same general and portable lighting) may be grouped together. This allows shall not be traded between offices having different lighting systems. Office Portable Luminaire Schedule Office Installed Office Installed Installed Office Watts Installed Office Watts Office Schedule Office Ortable Luminaire Schedule Office Installed Office Installed Office Schedule Office Installed Office Schedule Office Installed Office Installed Office Schedule Office Installed Office | NATE OF CALFORMA NDOOR LIGHTII ECHROCATION FRAME ECRIFICATE OF Review ECRIFICATE OF STATE G. Installed Portable I This section shall it this compliance d This section shall of the section shall not be trade Office Portable Lu Complete Lumit (Le., LED, under cabir (Le., LED, under cabir | NG a oute) PLIANCE SRILL Luminaires in be filled out O occument. d to determin line for each d between of uminaire Sche 1 | Offices NLY for e if grea differen fices har dule | - Exception to cortable lumin ter than 0.3 w office. Small ring different 2 | o Section 140 naires in office ratts of porta offices that a lighting syste Office Insta | ces (As de ble lighti are typica ams. alled Port 4 stalled ortable minaire ts in this | ing is paid (have table L | olanned for an ing the same uminaire W/f | y office general and po 7 If G06 ≤ 0.3, enter zero; | d portable lumi ortable lighting) 8 | 6/5/2017 naires shall be documented may be grouped together. Office Location 9 Identify Office area in which these portable | OMMISSION NRCC- (Pag I on next p This allow | LTI e 4 |

Total installed portable luminaire watts that are greater than 0.3 W/ft² per office:

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

| CERTIFICA Indoor Ligi | TE OF COMPLIANCE hting | | | |
|--------------------------|--|------------------------|-------------------------|-----------------|
| Project Name | " JOE'S GRILL | | | |
| | E Lighting Schedule Must Be Filled Out for Condit TIONED SPACE UNCONDITIONED SPA | | onditioned | Space |
| H. Indoor | Lighting Schedule and Field Inspection Energy (| Checklist | | |
| | Luminaire Schedule | | ir | stallec |
| 01 | 02 | 03 | 0 | 4 |
| | | - 0 | How was | tage w mined |
| Name or Item Tag | Complete Luminaire Description (i.e, 3 lamp fluorescent troffer, F32T8, one dimmable electronic ballast) | Watts per Luminaire | CEC Default from NA8 | According to |
| B/BE | 2'X4' EDGE-LIT PANELS | 40.0 | | 12 |
| C/CE | 1'X4' EDGE-LIT PANEL | 32.0 | | 2 |
| | | | | |
| | | | 0 | |
| | | | | |
| - | | | 0 | |
| | | | | |
| | | | | |
| | | | | |
| | | INS | STALLED W | ATTS |

April 2016

| | CCLTI-01-E (Revised 04/16) FICATE OF COMPLIANCE | | | CVDED 181 | IRCC-LTI-C |
|--|---|-------|------------|--|------------|
| indoor | Lighting | | | 0011111 | (Page 2 c |
| Project I | Name: JOE'S GRILL | | | Date Prepared: 12017 | |
| C. Sun | nmary of Allowed Lighting Power | | | 17RLD-03 | ΔΔ |
| Condi | tioned and Unconditioned space Lighting must not be combined | for o | compliance | 1/0L0-03 | 77 |
| | Indoor Lighting Power for Conditioned Spaces | | | Indoor Lighting Power for Unconditioned Spaces | |
| | | | Watts | | Watts |
| 01 | Installed Lighting NRCC-LTI-01-E, Table H, page 5 | + | 264 | Installed Lighting NRCC-LTI-01-E, Table H, page 5 + | 0 |
| 02 | Portable Only for Offices NRCC-UI-01-E, Table G, page 4 | + | | | |
| 03 | Minus Lighting Control Credits NRCC-LTI-02-E, page 2 | - | 0 | Minus Lighting Control Credits NRCC-LTI-02-E, page 2 | 0 |
| 04 | Adjusted Installed Lighting Power (row 1 plus row 2 minus row 3) | z | 264 | Adjusted Installed Lighting Power (row 1 minus row 3) | 0 |
| | Complies ONLY if Installed ≤ Allowed (Box 04 < Box 0 |)5) | | Complies ONLY if Installed ≤ Allowed (Box 04 < Box 05 |) |
| 05 | Allowed Lighting Power Conditioned NRCC-LTI-03-E, page 1 | | 551 | Allowed Lighting Power Unconditioned NRCC-LTI-03-E, page 1 | 0 |
| Alterations with replacement luminaires that have at least 50/35% lower power compared to the original existing luminaires, may instead use the allowed wattage from NRCC-LTI-06, page 2 | | | | | |

| ES | NO | Compliance Document/Title | |
|----|----|---|-------------------|
| 0 | 0 | NRCI-LTI-01-E - Must be submitted for all buildings | ☐ Field Inspector |
| | Ø | NRCI-LTI-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance. | ☐ Field Inspector |
| | Ø | NRCI-LTI-03-E - Must be submitted for a line-voltage track lighting integral current limiter, or for a supplementary overcurrent protection panel used to energize only line-voltage track lighting, to be recognized for compliance. | ☐ Field Inspector |
| | Ø | NRCI-LTI-D4-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multipurpose room, or a theater to be recognized for compliance. | ☐ Field inspector |
| | 2 | NRCI-LTI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance. | ☐ Field Inspector |
| | Ø | NRCI-LTI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance. | ☐ Field Inspector |

| | Indoor Lighting Power for Conditioned Spaces | | | Indoor Lighting Power for Unconditioned Spaces | | |
|------------|--|-------|-----------------|--|-------|--|
| CHECKER BY | | | Watts | | Watts | |
| 01 | Installed Lighting NRCC-LTI-01-E, Table H, page 5 | + | 264 | Installed Lighting NRCC-LTI-01-E, Table H, page 5 + | 0 | |
| 02 | Portable Only for Offices NRCC-LTI-01-E, Table G, page 4 | + | | | | |
| 03 | Minus Lighting Control Credits NRCC-LTI-02-E, page 2 | | 0 | Minus Lighting Control Credits NRCC-LTI-02-E, page 2 | 0 | |
| 04 | Adjusted Installed Lighting Power (row 1 plus row 2 minus row 3) | = | 264 | Adjusted Installed Lighting Power [row 1 minus row 3] | 0 | |
| | Complies ONLY if Installed ≤ Allowed (Box 04 < Box 0 |)5) | | Complies ONLY if Installed ≤ Allowed (Box 04 < Box 05 |) | |
| | Allowed Lighting Power Conditioned NRCC-LTI-03-E, page 1 | | 551 | Allowed Lighting Power Unconditioned NRCC-LTI-03-E, page 1 | 0 | |
| 05 | Alterations with replacement luminaires that have at leas 50/35% lower power compared to the original existing lumina may instead use the allowed wattage from NRCC-LTI-06, page | ires, | | Alterations with replacement luminaires that have at least 50/35% lower power compared to the original existing luminaires, may instead use the allowed wattage from NRCC-LTI-06, page 2 | | |
| | claration of Required Certificates of Installation | | | | | |
| | e by selecting yes for all of the Certificates that will be submitte | a. (F | Retain copies a | nd verify forms are completed and signed.) | | |
| YES | NO Compliance Document/Title | | | | | |

| Inspector | | | |
|-----------|------------|--|----|
| Inspector | | | |
| | Аргіі 2016 | | CA |
| | | | |

| ALIFORNIA R LIGHTING LTI-01-E (Revised 04/16) | | CALIFORNIA ENERGY COMMISSION |
|--|--|---|
| ATE OF COMPLIANCE | | NRCC-LTI-01- |
| ghting | | (Page 5 of 6 |
| ne: JOE'S GRILL | And And Anticological Section and Conference of Conference | Date Prepared: 6/5/2017 |
| | to the state of th | |
| te Lighting Schedule Must Be Filled Out for Co | onditioned and Unconditioned Spaces. Installed Lighting F | Power listed on this Lighting Schedule is only for: |
| | | |

| | Luminaire Schedule | | li | nstalled Wa | tts | | Location | Field Inspector 1 | |
|---------------------|--|------------------------|----------|-----------------------------------|----------------------|--|---|-------------------|------|
| 01 | 02 | 03 | 04 | | 05 | 06 | 07 | 80 | |
| Name or Item Tag | Complete Luminaire Description (i.e, 3 lamp fluorescent troffer, F32T8, one dimmable electronic ballast) | Watts per Luminaire | n NA8 | According to was mined \$130.0(c) | Number Luminaires | Total Installed Watts in this area (H03 x H05) | Primary Function area in which these luminaires are installed | Pass | Fail |
| B/BE | 2'X4' EDGE-LIT PANELS | 40.0 | 9 g | Acc: | 5 | 200 | Kitchen, Food Preparation | - 0 | - |
| C/CE | 1'X4' EDGE-LIT PANEL | 32.0 | | 12 | 2 | 64 | Corridor/Restroom/Support | | |
| C/CE | TA4 EDGE-LIT PANEL | 02.0 | | | | 04 | Comachinesport | 0 | |
| | | | | | | | 1 | 0 | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | 0 | | | | | | 0 |
| | | | | | | | | 0 | |
| | | | | | | | | | |
| | | | 0 | 0 | | | | | |
| | | IN: | TALLED W | ATTS PAG | E TOTAL: | 264 | Enter sum total of all pages into NRCC-LTI-01-E; Page 2 | | |

| TATE OF CALIFORNIA NDOOR LIGHTING | 6 |
|-----------------------------------|------------------------------|
| EC-NRCC-LTI-01-E (Revised 04/16) | CALIFORNIA ENERGY COMMISSION |
| CERTIFICATE OF COMPLIANCE | NRCC-LTI-01-I |
| Indoor Lighting | , (Page 3 of 6 |
| Project Name: JOE'S GRILL | Date Prepared: 6/5/2017 |

| | | equired Certificates of Acceptance Lyes for all of the Certificates that will be submitted. (Retain copies and verify forms are completed and signed. |) |
|-----|----|---|-------------------|
| YES | NO | Compliance Document/Title | |
| Ø | 0 | NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls. | ☐ Field inspector |
| | Q | NRCA-LTI-03-A - Must be submitted for automatic daylight controls. | ☐ Field Inspector |
| | Q. | NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls. | ☐ Field Inspector |
| | Q. | NRCA-LTI-05-A – Must be submitted for institutional tuning power adjustment factor (PAF). | ☐ Field Inspector |

A Separate Lighting Schedule Must Be Filled Out for Conditioned and Unconditioned Spaces. Installed Lighting Power listed on this Lighting Schedule is only for CONDITIONED SPACE UNCONDITIONED SPACE

F. Indoor Lighting Schedule and Field inspection Energy Checklist

The actual indoor lighting power listed on the next 2 pages includes all installed permanent and planned portable lighting systems.

When Complete Building Method is used for compliance, list each different type of luminaire on separate lines.

When Area Category Method or Tailored Method is used for compliance, list each different type of luminaire by each different function area on separate lines.

Also include track lighting in schedule, and submit the track lighting compliance document (NRCC-LTI-O5-E) when line-voltage track lighting is installed.

A Building Energy Efficiency Standards - 2016 Nonresidential Compliance

TORRANCE, CA 90248

| NDOOR LIC | | | | CALIFORNIA ENERGY COMMISSION |
|--|---|--|--------------------------------------|---|
| CERTIFICATE O | F COMPLIANCE | | | NRCC-LTI-01-6 |
| Indoor Lighting | | | | (Page 6 of 6 |
| Project Name: JC | DE'S GRILL | | Da | tte Prepared: 6/5/2017 |
| DOCUMENTATIO | ON AUTHOR'S DECLARATION STATEMENT | | | |
| 1. I certify that | t this Certificate of Compliance documentation is accurate and complete. | | 1. | |
| Documentation Auth | or Name: RAMON EDRICK HILARIO | Documentation Author Signature: | D | 4 |
| Company: | The American Engineers | Signature Date: 6/5/2017 | - / | |
| Address: | 18311 SOUTH WESTERN AVE. | CEA Certification identification (if sp | plicabl | E-20282 |
| City/State/Zip: | TORRANCE, CA 90248 | Phone: 310-576-1553 | | |
| | ERSON'S DECLARATION STATEMENT | | | |
| The inform I am eligibly (responsibly The energy Compliance The building documents I will ensure enforceme builder pro | swing under penalty of perjury, under the laws of the State of California: atton provided on this Certificate of Compliance is true and correct. e under Division 3 of the Business and Professions Code to accept responsil de designer). Freatures and performance specifications, materials, components, and mar conform to the requirements of Title 24, Part 1 and Part 6 of the California gle design features or system design features identified on this Certificate of your workness, calculations, plans and specifications submitted to the enform to that a completed signed copy of this Certificate of Compliance shall be m to agency for all applicable inspections. I understand that a completed sign vides to the building cowner at occupancy. | ufactured devices for the buildin a Code of Regulations. Compliance are consistent with thement agency for approval with ade available with the building ped copy of this Certificate of Com | g desi the in this b ermit(| ign or system design identified on this Certificate of formation provided on other applicable compliance building permit application. (s) issued for the building, and made available to the |
| Company: | HI-TECH ENGINEERING, INC | Date Signed: | 6/5/ | 2017 |
| Address: | 19211 SOUTH WESTERN AVE | License: | E-20 | 1282 |

April 2016 CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

310-576-1553

fb + h

fonda-bonardi & hohman architects

1450 23rd Street Santa Monica, CA 90404 310-453-1134, 310-828-5830 fax info@tbharohitects.com www.fbharchitects.com

CLIENT Tenant Improvement for Joe's Grill 2912 Main Street Santa Monica ,CA 90405



| | Consulting Mechanical | Electrical and | 18311 S. Western Ave. | Torrance, CA 90248 | info@hitechengineering.us | www.hitechengineering.us | |
|----------------------|--------------------------|----------------------|-----------------------|--------------------|---------------------------|---------------------------|------------------------|
| | | | | | | 41 TECH ENGINEERING, INC. | |
| CHANGES REVISIONS #1 | | | | | | | |
| | | | | | | | |
| As-Built Drawings | ARB and SCHEMATIC DESIGN | Consruction Drawings | REVISED ARB | BIDDING | PLAN CHECK | PLAN CHECK REVISIONS | CONSTRUCTION DOCUMENTS |

INTERIOR LIGHTING TITLE 24 SHEET 1

E5.1

| STATE OF DALIFORNIA INDOOR LIGHTING - LIGHTING CONTROLS | STATE OF CALIFORNIA INDOOR LIGHTING - LIGHTING CONTROLS | STATE OF CAUPORNA INDOOR LIGHTING - LIGHTING CONTROLS |
|--|--|---|
| CECNIFICATI PAGE (Revised 01/16) CALIFORNIA EMERGY COMMISSION CERTIFICATE OF COMPULANCE NRCC-LTI-02-E | CECHROC4 THAZE (RANKAGO (1116) CERTIFICATE OF COMPLIANCE NRCC-LTI-02-E | CECNROCLT-02E [Revised 01/16] CALFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE NRCC-LTI-02-E |
| Indoor Lighting - Lighting Controls (Page 1 of 3) | Indoor Lighting - Lighting Controls (Page 2 of 3) | Indoor Lighting - Lighting Controls (Page 3 of 3) Project Name - LOF'S GRILL (5/16 Projected: 6/15/2017 |
| Project Native JOE'S GRILL | Project Name: JOE'S GRILL | Project Reserr JOE'S GRILL |
| | A separate document must be filled out for Conditioned and Unconditioned Spaces. This page is upgrouping the followings: | DOCUMENTATION AUTHOR'S DECLARATION STATEMENT 1. Lectify that this Certificate of Compliance documentation is accurate and complete. |
| A. Mandatory Ughting Control Declaration Statements (Indicate if the measure applies by checking yes or no below.) | © CONDITIONED SPACES UNCONDITIONED SPACES TO UNCONDITIONED SPACES | Documentation Author Name: RAMON EDRICK HILARIO |
| YES NO Control Requirements | B. Mandatory and Prescriptive Indoor Lighting Control Schedule, PAF Calculation, and Field Inspection Chemis - | Company: The American Engineers Segrature Date 6/5/2017 CA Configuration Secritication of applicable in |
| Lighting shall be controlled by self-contained lighting control devices which are certified to the Energy Commission according to the Title 20 Appliance | PAF Credit Calculation (g b g | 10011 SOUTH WESTERN AVE. E-20282 |
| Efficiency Regulations in accordance with Section 110.9. [Inhibitor shall be controlled by a lighting control and a secondary product control partial in accordance with \$110.9. An installation Coefficient whall.] | s of fine fine fine fine fine fine fine fin | CONSTRUCTION TORRANCE, CA 90248 710-576-1553 RESPONSIBLE PERSON'S DECLARATION STATEMENT |
| be submitted in accordance with Section 130.4(b). | Standards Complying With t TW G G G G G G G G G G G G G G G G G G | I certify the following under penalty of perjury, under the laws of the State of California: |
| One or more Track Lighting integral Current Limiters shall be installed which have been certified to the Energy Commission in accordance with \$110.9 and \$130.0. Additionally, an installation Certificate shall be submitted in accordance with Section 130.4(b). | Lighting Control Schedule (\sigma all that apply, or enter 'E' if Exempted) Lighting Control Schedule (\sigma all that apply, or enter 'E' if Exempted) Lighting Control Schedule Lighting Control Schedule (\sigma all that apply, or enter 'E' if Exempted) Lighting Control Schedule Lighting Control Schedule (\sigma all that apply, or enter 'E' if Exempted) Lighting Control Schedule (\sigma all that apply, or enter 'E' if Exempted) Lighting Control Schedule (\sigma all that apply, or enter 'E' if Exempted) Lighting Control Schedule (\sigma all that apply, or enter 'E' if Exempted) Lighting Control Schedule (\sigma all that apply, or enter 'E' if Exempted) Lighting Control Schedule (\sigma all that apply, or enter 'E' if Exempted) Lighting Control Schedule (\sigma all that apply, or enter 'E' if Exempted) Lighting Control Schedule (\sigma all that apply, or enter 'E' if Exempted) Lighting Control Schedule (\sigma all that apply, or enter 'E' if Exempted) Lighting Control Schedule (\sigma all that apply, or enter 'E' if Exempted) Lighting Control Schedule (\sigma all that apply, or enter 'E' if Exempted) Lighting Control Schedule (\sigma all that apply, or enter 'E' if Exempted) Lighting Control Schedule (\sigma all that apply, or enter 'E' if Exempted) Lighting Control Schedule (\sigma all that apply, or enter 'E' if Exempted) Lighting Control Schedule (\sigma all that apply, or enter 'E' if Exempted) Lighting Control Schedule (\sigma all that apply, or enter 'E' if Exempted) Lighting Control Schedule (\sigma all that apply, or enter 'E' if Exempted) Lighting Control Schedule (\sigma all that apply, or enter 'E' if Exempted) (\sigma all that apply, or enter 'E' if Exempted) (\sigma all that apply, or enter 'E' if Exempted) (\sigma all that apply, or enter 'E' if Exempted) (\sigma all that apply, or enter 'E' if Exempted) (\sigma all that apply, or enter 'E' if Exempted) (\sigma all that apply, or enter 'E' if Exempted | The information provided on this Certificate of Compliance is true and correct. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance |
| A Track Lighting Supplementary Overcurrent Protection Panel shall be inaccordance with Section 110.9 and Section 130.0. Additionally, an | Type/Description of Lighting | (responsible designer). 3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of |
| installation Certificate shall be installed in accordance with Section 130.4(b). | Control (i.e.: occupancy sensor, # (a) (1) (7) (7) (6) (9) (1) (9) (9) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1 | Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations. 4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance |
| All lighting controls and equipment shall comply with the applicable requirements in \$110.9 and shall be installed in accordance with the manufacturer's instructions in accordance with Section 130.1. | Location in Building automatic time switch, of O O O O O O O O O O O O O O O O O O | documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application. 5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the |
| ☐ All luminaires shall be functionally controlled with manually switched ON and OFF lighting controls in accordance with Section 130.1(a). | etc) | enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Completing is required to be included with the documentation the builder provides to the building owner at occupancy. |
| General lighting shall be separately controlled from all other lighting systems in an area. Floor and wall display, window display, case display, ornamental, | KITCHEN/RESTROOM Manual Area 1 U 0 </td <td>Responsible Designer Name: RAMON HILARIO</td> | Responsible Designer Name: RAMON HILARIO |
| and special effects lighting shall each be separately controlled on circuits that are 20 amps or less. When track lighting is used, general, display, | RESTROOM Occupancy Sensor 1 | Congeary: HI-TECH ENGINEERING, INC Dues Signed: 6/5/2017 |
| ornamental, and special effects lighting shall each be separately controlled; in accordance with Section 130.1(a)4. The general lighting of any enclosed area 100 square feet or larger, with a connected lighting load that exceeds 0.5 watts per square foot shall meet the | | 18311 SOUTH WESTERN AVE. E-20282 |
| multi-level lighting control requirements in accordance with Section 130.1(b). | | City/State/Zipr: TORRANCE, CA 90248 310-576-1553 |
| All installed indoor lighting shall be equipped with controls that meet the applicable Shut-OFF control requirements in Section 130.1(c). | Control Credit PAGE TOTAL (Sum of Column 13): 0 | |
| □ □ Lighting in all Daylit Zones shall be controlled in accordance with the requirements in Section 130.1(d) and daylit zones are shown on the plans. | IF MULTIPLE PAGES ARE USED, ENTER SUM TOTAL OF Control Credit for all pages HERE (Sum of all Column 13): O | |
| Lighting against in heiddings larger than 10.000 source feet shall be comble of keing automatically reduced in personne to a Domand Recognic Signal in | into NRCC-LTI-01-E; Page | |
| accordance with Section 130.1(e). | 1. §130.1(a) = Manual area controls; §130.0(b) = Multi Level; §130.1(c) = Auto Shut-Off; §130.1(d) = Mandatory Daylight; §130.1(e) = Demand Responsive; §140.6(d) = | |
| Before an occupancy permit is granted for a newly constructed building or area, or a new lighting system serving a building, area, or site is operated for normal use, indoor lighting controls serving the building, area, or site shall be certified as meeting the Acceptance Requirements for Code Compliance in | Additional lighting controls installed to earn a PAF; \$140.6(d) = Prescriptive Secondary, Sidelit Daylight Controls. 2. Check Table 140.6-A for correct Factor. PAFs shall not be traded between conditioned and unconditioned spaces. As a condition to earn a PAF, an installation Certificate is | |
| accordance with Section 130.4.(a). The controls required to meet the Acceptance Requirements include automatic daylight controls, automatic shut-OFF | 2. Check Table 140.6-A for correct factor. PAFs shall not be traded between conditioned and unconditioned spaces. As a condition to earn a PAF, an installation Lestificate is also required to be fifted out, signed, and submitted. | |
| controls, and demand responsive controls. | | |
| CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance January 2016 | CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance January 2015 | CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance January 2016 |
| | | |
| | STATE OF CAUPORNIA | STATE OF CALIFORNIA |
| STATE OF CALIFORNIA INDOOR LIGHTING POWER ALLOWANCE | INDOOR LIGHTING POWER ALLOWANCE | INDOOR LIGHTING POWER ALLOWANCE CEL-NOCCI TURKE Revised BUTS CALIFORNIA ENERGY COMMISSION |
| CECARCOLITIO3-E (Revised 04/16) CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE NRCC-LITI-03-E | CERTIFICATE OF COMPLIANCE NRCC-LTI-03-E | CERTIFICATE OF COMPLIANCE NRCC-LTI-03-E |
| Certificate of Compliance - Indoor Lighting Power Allowance (Page 1 of 4) Project Name: JOE'S GRILL Date Properties 6/5/2017 | Certificate of Compliance - Indoor Lighting Power Allowance (Page 2 of 4) Project Same: JOE'S GRILL Conceptual | Certificate of Compliance - Indoor Lighting Power Allowance (Page 3 of 4) Project Name: JOE'S GRILL |
| JOES GRILL 009/2017 | 0020 011112 | |
| A separate page must be filled out for Conditioned and Unconditioned Spaces. This page is only for: ☑ CONDITIONED spaces ☐ UNCONDITIONED spaces | A separate page must be filled out for Conditioned and Unconditioned Spaces. This page is only for: CONDITIONED spaces UNCONDITIONED spaces | A separate page must be filled out for Conditioned and Unconditioned Spaces. This page is only for: CONDITIONED spaces UNCONDITIONED spaces |
| | | C-3 AREA CATEGORY METHOD ADDITIONAL LIGHTING WATTAGE ALLOWANCE (from Table 140.5-C Footnotes) |
| A. SUMMARY TOTALS OF LIGHTING POWER ALLOWANCES If using Complete Building Method for compliance, use only the total in column (a) as total allowed building watts. | C - 2 AREA CATEGORY METHOD GENERAL LIGHTING POWER ALLOWANCE Do not include portable lighting for offices. Portable lighting for offices shall be documented only in Section G of NRCC-LTI-01-E. | 01 02 03 2 04 05 06 07 |
| If using Area Category Method, Tailored Method, or a combination of Area Category and Tailored Method for compliance, use only the total in column (h) as the total | United induce post user injuring for ormers. For state legiting, for ormers a fine of continued to the continued of the conti | Additional Wattage ALLOWED WATTS |
| allowed building watts | 01 02 03 04 | Primary Sq Ft or Watts Allowance Description(s) and Quantity of Special Total Design Smaller of |
| 01 Complete Building Method Allowed Watts. Documented in section B of NRCC-LTI-03-E (below on this page) | AREA CATEGORY (From \$140.6 Table 140.6-C) Location in Building Primary Function Area per Table 140.6-C PER ft ² X AREA (ft ²) = WATTS WATTS WATTS AREA (ft ²) = WATTS | Function Linear ft Allowed (02 x 03) Luminaire Types in each Primary Function Area Watts O4 of U6 |
| 02 Area Category Method Allowed Watts. Documented in section C-1 of NRCC-LTI-03-E (below on this page) 03 Tailored Method Allowed Watts. Documented in section A of NRCC-LTI-04-E 0 | FOOD PREPARATION Kitchen, Food Proparation 1.20 432 518 | |
| TOTAL ALLOWED BUILDING WATTS. Enter number into correct cell on NRCC-LTI-01, Page 2, Row 1 | RESTROOM Corridor/Restroom/Support 0.60 55 33 | |
| ☐ Check here if building contains both conditioned and unconditioned areas. | | |
| B. COMPLETE BUILDING METHOD LIGHTING POWER ALLOWANCE | | |
| 01 02 03 04 | | |
| TYPE OF BUILDING (From §140.6 Table 140.6-B) WATTS X COMPLETE = ALLOWED PER ft ² BLDG. AREA WATTS | | |
| Total Area: | | |
| Total Watts. Enter Total Watts into section A, row 1 (Above on this page) | | |
| C -1 AREA CATEGORY METHOD TOTAL LIGHTING POWER ALLOWANCES Watts | | |
| C-1 AREA CATEGORY METHOD TOTAL DIGHTING POWER ALLOWANCES Watts Total from section C-2. 551 | | |
| Total from section C-3. 0 | | YOTALS – Enter into TOTAL AREA CATEGORY METHOD ADDITIONAL ALLOWANCES – Section C-1 0 |
| Total Watts. Enter Total Watts into section A, row 2 (Above on this page). 551 For Alterations Only – Reduced lighting power option (Total Allowed Watts x 0.85). Enter this value into section A, row 2 if using this option. | | 1. Use linear feet only for additional allowance for white board or chalk board. All other additional Area Category allowances shall use watts per square foot. |
| | TOTALS 487 | 2 Additional watth are available only when allowed according to the footnotes on bottom of Table 140.6-C, which include: Specialized task work; Ornamental lighting; Precision commercial and industrial work; Per linear foot of white board or chalk board; Accent, display and feature lighting; and Videoconferencing studio lighting. |
| | Enter sum total Area Category allowed watts into section C-1 of NRCC-LTI-03-E (this compliance document) 551 | 3. Luminaire classification and wattage shall be determined in accordance with §130.0(c) of the Standards. |
| | WATTS | • |
| CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016 | CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016 | CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016 |
| | | |
| | | |
| | STATE OF CALIFORNIA INDOOR LIGHTING POWER ALLOWANCE | |
| | GECHRICCLT103E (Revised 94/16) CALIFORNIA ENERGY COMMISSION CERTIFICATE OF COMPLIANCE NRCC-LTI-03-E | |
| | Certificate of Compliance - Indoor Lighting Power Allowance (Page 4 of 4) | |
| | Project Manner, JOE'S GRILL One Proposed 6/5/2017 | |
| | DOCUMENTATION AUTHOR'S DECLARATION STATEMENT | |
| | I. I certify that this Certificate of Compliance documentation is accurate and complete. Documentation Author Name: RAMON EDRICK HILARIO Opcumentation Author Signature: | |
| | Company: The American Engineers Stenature Date: 6/5/2017 | |
| | Address: 18311 SOUTH WESTERN AVE. GA Certification (depth/cation (d application): E-20282 | |
| | Chy/Sets/Zup: TORRANCE, CA 90248 *** 310-576-1553 | |
| | RESPONSIBLE PERSON'S DECLARATION STATEMENT I certify the following under penalty of perjury, under the laws of the State of California: | |
| | 1. The information provided on this Certificate of Compliance is true and correct. 2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance. | |
| | 2. Tam eignor under brison and the business and Professions Code to accept responsibility for the business and Professions Code to accept responsibility for the business of the business of the business of the business of the configuration of the Certificate of the business of the busin | |
| | The energy returns an performance specification, materials, components, and inclinations developed the bounding design of specification of the requirements of Tible 24, Part 1 and Part 6 of the California Code of Regulations. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance. | |
| | 4. The building design features or system design restures a certain and the building design features or system design restures or system design restures a certain and the building design features or system design restures a decument, worksheets, calculations, plans and specifications on building design design approach with this building permit application. 5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit building, and made available to the | |
| | enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Complyince is required to be included with the documentation the | |
| | builder provides to the building owner at occupancy. Responsible Designer Name: RAMON HILARIO | |
| | Company: Date Signed: CCC DATE | |

Responsible Designer Signature:
Date Signed: 6/5/2017

E-20282 310-576-1553

HI-TECH ENGINEERING, INC 18311 SOUTH WESTERN AVE.

TORRANCE, CA 90248

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

fb + h

fonda-bonardi & hohman architects

1450 23rd Street Santa Monica, CA 90404 310-453-1134, 310-828-5830 fax info@fbharchitects.com www.fbharchitects.com

CLIENT Tenant Improvement for Joe's Grill 2912 Main Street Santa Monica ,CA 90405



#NTERIOR LIGHTING TITLE 24 SHEET 2

Pipersky4.0 CD.pln 6/06/17

E5.2



| CEC-NRCC-LTO-01-E (Revised 04/18) CERTIFICATE OF COMPLIANCE | E | | | NRCC-LTO-0 |
|---|---|--|-------------|---------------------------------|
| Outdoor Lighting | | | | (Page 1 of |
| Project Name JOE'S GRILL | | Ď- | na Dragorne | |
| | | | | |
| A. General Information | | | | |
| Project Address: 2912 MAIN | N STREET SANTA MONI | CA, CA 90405 | Total Illi | uminated Hardscape Area: 638 |
| Phase of Construction: | ☐ New Construction | ☐ Addition | I Alt | eration |
| Outdoor Lighting Zone (LZ) | D LZ-1 | □ LZ-2 | ☑ LZ-3 | П17-4 |
| | | e. For default lighting zone design | | |
| There committee with the Air | b which de applica to this sie | c. To delate lighting cone design | | c 1100 2 1 1 010 0, 320 22 1 |
| B. Lighting Compliance Docu | mante (chack how for each c | focument included) | | |
| | | ency Standards compliance documents, | | - Alexandria Africa Africa |
| published by the California Energ | | ncy standards compilance documents, | rejer to th | e nomesiaenaa wanaa |
| ₩ NRCC-LTO-01-E | Certificate of Complian | nce | | |
| □ NRCC-LTO-02-E | | trols Certificate of Compliance | | |
| □ NRCC-LTO-03-E | | er Allowance Certificate of Compliano | | |
| □ NRCC-LTO-04-E | Outdoor Lighting Exist | ting Conditions Certificate of Complian | ice | |
| | | | | |
| C. Summary of Allowed Outo | | ge from NRCC-LTO-03-E, page 1 | - | Watts |
| | VED OUTGOOF LIGHTING WATER | ge nom wecc-tro-os-t, page 1 | 715 | |
| | NO increase of connected lig llowed wattage from NRCC- | ghting load may instead use the LTO-04, page 2. | | |
| | Complies ONLY if I | nstalled (Box 02) ≤ Allowed (Box 0 | 1) | |
| 02 Sum Total INSTAL | LED Outdoor Lighting Watta | ge from NRCC-LTO-01-E, page 3. | 221 | |
| | | | | |
| D. Declaration of Required I | | | | |
| Declare by checking all Installati signed.) | on Certificates that will be sub | mitted. (Retain copies and verify comp | mance doc | uments are completed and |
| ☑ NRCI-LTO-01-E - Must be sub | mitted for all buildings | | | ☐ Field Inspector |
| | | stem, or for an Energy Management C | ontrol | ☐ Field Inspector |
| System (EMCS), to be recognize | d for compliance. | | | |
| | | | | |
| E. Declaration of Required C Declare by checking all of the Co | | vill be submitted. (Retain copies and v | erify compl | liance documents are complete |
| and signed.) | | | | |
| ☑ NRCA-LTO-02-A - Must be sul | bmitted for outdoor lighting co | ntrols. | | ☐ Field Inspector |
| | | | | |
| F. Schedule of Luminaires Ex | empt from the Outdoor Lig | thting Power Requirements in §14 | U.7 | |
| Name or Symbol | Descriptio | n of exempt luminaire in accordan | ce with th | ne exemptions |
| | | | | |
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| CEC-NRCC-LTO-01-E (Revised 04/16) | GALIFORNIA ENERGY COMMISS |
|-----------------------------------|--|
| CERTIFICATE OF COMPLIANCE | 1/BH)-(19 |
| Outdoor Lighting | 1/ DED 04 |
| Project Name: JOE'S GRILL | Date Prepared: 6/5/2017 |
| | |
| | mpt from the Cutoff Requirements in §130.2(b) |
| 01 | 02 |
| Name or Symbol | Description of exempt luminaire in accordance with the exemptions |
| | The same standards and |
| | |
| | |
| | |
| | |
| H. Schedule of Luminaires Exe | empt from the Outdoor Lighting Control Requirements in §130.2(c) |
| 01 | 02 |
| Name or Symbol | Description of exempt luminaire in accordance with the exemptions |
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| | enderstock reservoid and an extraction of the second secon |
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CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

| RTIFICATE OF | COMPLIANCE | | | | | | | | NRC | C-F. |
|---------------|---|------------------------|-------------------------|---------------------------|--------------------------|--|---------------------------------------|----------------|------|------|
| tdoor Lightin | g | | | | | | | | (1 | age |
| ctrume: JOE' | S GRILL | | | | | | Date Prepared: 6/5/2017 | | | |
| | | | | | | | | | | _ |
| I. Outdoor | Lighting Schedule and Field Inspection Ener | gy Checklist | | | | | | 1 | T E | ield |
| | Luminaire Schedule | | In | stalled Wa | itts | | Location | Cutoff | Insp | ec |
| 01 | 02 | 03 | 0- | 4 | 05 | 06 | 07 | 08 | | 09 |
| | | | How wat | | | _ | | | | Г |
| | | determined | | area | Primary Function area in | | | | | |
| Name or | Complete Luminaire Description | F 0 | 4 | 2 | 5 5 | this this | which the luminaires are installed | DUG Rating | Pass | |
| Item Tag | | s pe | NA8 | ding 0(c) | ber | su s | (Outdoor Lighting Zone) | 1 | - | 1 |
| | | Watts per Luminaire | CEC Default from NA8 | According to §130.0(c) | Number of Luminaires | Total installed Watts in this area (3 x 5) | (Outdoor Lighting 2010) | | | |
| | | + | | | | | | UH: n/a | - | t |
| | | | | | | | | UL: n/a | 100 | 1 |
| | | | | | 7 | 119 | Dining | FVH: n/a | 0 | 1 |
| С | EXTERIOR WALL SCONCE | 17.0 | | 0 | ľ | | - Inning | BVH: n/a | | l |
| | | | | | | | | FH: n/a | | ١ |
| | 1 | | | | | | | BH: n/a | | ľ |
| | | | | | | | | UH: n/a | | 1 |
| | | | | | | | | UL: n/a | | ļ |
| С | EXTERIOR WALL SCONCE | 17.0 | | 127 | 6 | 102 | Pedestrian Hardscape | FVH: n/a | | |
| | | | - | - | | | | BVH: n/a | | 1 |
| | * | | | | | | | FH: n/a | + | 1 |
| | | _ | | ļ | ļ | | | BH: n/a UH: | + | 1 |
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CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

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| | F COMPLIANCE | | | | | | | | | C-LTO-01-E |
| oor Lightin | | | | | | | Date Property: 6/5/2017 | , | (1 | age 3 of 4 |
| ume: JOE | 'S GRILL | | | | | | 0,0,2011 | | | |
| Outdoor | Lighting Schedule and Field Inspection Energy | Checklist | | | | | | | | |
| | the state of the state | | . In | stalled W | | | Location | Cutoff | | eld ector |
| 01 | Luminaire Schedule | 03 | 0 | | 05 | 06 | 07 | 08 | | 19 |
| | | - | How wat | tage was | | | | | | |
| | | | deten | mined | | are | Primary Function area in | | | |
| Name or Item Tag | Complete Luminaire Description | Watts per Luminaire | CEC Default from NA8 | According to §130.0(c) | Number of Luminaires | Total installed Watts in this area (3 x 5) | which the luminaires are installed (Outdoor Lighting Zone) | 5UO Rating | Pass | 25 |
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| | | | | | | | | UH: n/a UL: n/a | 143 | |
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fonda-bonardi & hohman architects

1450 23rd Street Santa Monica, CA 90404 310-453-1134, 310-828-5830 fax into@ibharchitects.com www.fbharchitects.com

CLIENT
Tonant Improvement for
Joe's Grill
2912 Main Street
Santa Monica ,CA
90405



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|---|---------------------------------|--|----------------------|-------------|-----------|------------|----------------------------|------------------------|
| | | The House of the H | | | | | HI TECH ENGINEERING, INC.) | |
| | CHANGES REVISIONS #1 | | | | | | | |
| | November 2016 As-Built Drawings | ARB and SCHEMATIC DESIGN | Consruction Drawings | REVISED ARB | BIDDING | PLAN CHECK | PLAN CHECK REVISIONS | CONSTRUCTION DOCUMENTS |
| | November 2016 | 12/29/16 | 1/23/17 | 1/30/2017 | 2/20/2017 | 6/27/2017 | | |

EXTERIOR LIGHTING TITLE 24 SHEET 3

April 2016

Pipersky4.0 OD.pln 6/06/17

E5.3

| STATE OF CALIFORNIA OUTDOOR LIGHTING CONTROLS CALIFORNIA ENERGY COMMISSION CALIFORNIA ENERGY COMMISSION | STATE OF CALIFORNIA OUTDOOR LIGHTING CONTROLS IGNORMATION OF EMPHOREMENTS. | CALIFORNA ENERGY COMMASSION NRCC-LYTO-02-E | STATE OF CALIFORNIA OUTDOOR LICHTING CONTROLS GEO-RECULTO DEE Revision (1915) CERTRICATE OF COMPILANCE NRCC-10TO 02: F |
|--|--|--|--|
| CERTIFICATE OF COMPLIANCE NRCC-11O-02-E Outdoor Lighting Controls (Page 1 of 3) | CERTIFICATE OF COMPLIANCE Outdoor Lighting Controls | OUNDED (81) (Page 2 of 3) | Outdoor Lighting Controls (Page 3 of 3) |
| Project Name: JOE'S GRILL Does Projected 6/5/(2017 | Project Name: JOE'S GRILL | 6/5/2017 | Traped Name JOE'S GRILL. Does Pressured: 6/5/2017 |
| | B. Mandatory Outdoor Lighting Control Schedule and Field Inspection Checklist | 09/11/17 | DOCUMENTATION AUTHOR'S DECLARATION STATEMENT 1. I certify that this Certificate of Compliance documentation is accurate and complete. |
| A. Mandatory Outdoor Lighting Control Declaration Statements Check all that apply: | | 17BI D-0344 | Documentation Author Name: RAMON EDRICK HILARIO Documentation Author Signature: |
| ☑ Lighting shall be controlled by self-contained lighting control devices which are certified to the Energy Commission according to the Title 20 Appliance Efficiency | | Standards Complying With | Company: The American Engineers Signature Date: 6/6/2017 Addess: 1921 1 COLUMN MEETERN AVE CIA Conflictions identification (if against less in Facility Column Col |
| Regulations in accordance with \$120.0(a). Lighting shall be controlled by a lighting control system or energy management control system in accordance with \$110.9. An installation Certificate shall be submitted | Outdoor Lighting Control Schedule | (*/ all that apply, or enter 'E' if Exempted) | Address: |
| in accordance with §130.4(b). All lighting controls and equipment shall comply with the applicable requirements in §110.9 and shall be installed in accordance with the manufacturer's instructions in | | 7 = 2 | RESPONSIBLE PERSON'S DECLARATION STATEMENT |
| accordance with §130.0(d). | | 03 04 05 06 07 08 09 10 11 | I certify the following under penalty of perjury, under the laws of the State of California: 1. The information provided on this Certificate of Compliance is true and correct. |
| Part-Night Outdoor Lighting Controls, as defined in Section 100.1(b), shall meet the requirements in Section 110.9(b)5. All outdoor incandescent luminaires rated over 100 watts, determined in accordance with Section 130.0(c), shall be controlled by a motion sensor. | Type/ Description of Lighting Control (i.e. outdoor motion sensor, outdoor | (c) | I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compiliance (responsible designer). |
| ☐ All outdoor luminaires rated for use with lamps greater than 150 lamp watts, determined in accordance with Section 130.0(c), shall comply with Uplight and Glare requirements in accordance with Section 130.2(b). | tuminaires Being Controlled switch control, automatic scheduling Un | | The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Tibe 2.8, Part 1 and Part 6 of the California Code of Regulations. The building design relatives or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance |
| All installed outdoor lighting shall be controlled by a photocontrol or outdoor astronomical time-switch control, or other control capable of automatically switching OFF | control, part-night outdoor lighting control) | | to the second state of the second second second second second with this building narmit application |
| in accordance with Section 130.2(c)1. All installed outdoor lighting shall be independently controlled from other electrical loads by an automatic scheduling control in accordance with Section 130.2(c)2. | EXTERIOR LIGHTING Photocontrol 1 EXTERIOR LIGHTING Astronomical Time Switch 1 | . 800 | to comment, workstoness, canculations, para aits particulations sourced on the entire depth of the plan and comment of the comment of the property of the plan and the comment of the plan and the plan |
| All installed outdoor lighting, where the bottom of the luminaire is mounted 24 feet or less above the ground, shall be controlled with automatic lighting controls in accordance with Section 130.2(c)3. | | | Responsible Designer Name: RAMON HILARIO Responsible Designer Signature: |
| ☐ For Outdoor Sales Frontage, an automatic lighting control shall be installed in accordance with Section 130.2(c)4. | | | Companies: HI-TECH ENGINEERING, INC 18811 SOUTH WESTERN AVE. License: E-20282 License: Licen |
| For Building Facade, Ornamental Hardscape and Outdoor Dining lighting, an automatic lighting control shall be installed in accordance with Section 130.2(c)5. Before an occupancy permit is granted for the newly constructed building or for the addition, or for any altered outdoor lighting, the outdoor lighting controls shall be | | | City/State/Tip: TORRANCE, CA 90248 Phone: 310-576-1553 |
| certified as meeting the Acceptance Requirements for Code Compliance in accordance with §130.4.(a). Outdoor lighting controls shall comply with the applicable requirements of Section 130.2(c) and Reference Nonresidential Appendix NA7.8. | | | |
| The state of the s | | 0 0 0 | |
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| | | | |
| CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance August 2016 | CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance | August 2016 | CA Building Energy Efficiency Standards - 2018 Norresidential Compliance · August 2016 |
| STATE OF CALFORNIA OUTDOOR LIGHTING POWER ALLOWANCES | STATE OF CALIFORNIA OUTDOOR LIGHTING POWER ALLOWANCES | CALIFORNIA ENERGY COMMISSION | STATE OF CALEFORNA OUTDOOR LIGHTING POWER ALLOWANCES SECHEDOLIONAL REMEMBER DIVIS CALEFORNA EMERGY COMMISSION |
| CERTIFICATE OF COMPULANCE NRC-LTO-03-E | CEC-NRCC-LTO-03-E (Revised 01/16) CERTIFICATE OF COMPLIANCE | NRCC-LTO-03-E | CERTIFICATE OF COMPLIANCE NRCC-LTO-03-E |
| Outdoor Lighting Power Allowances (Page 1 of 4) Page 1 of 4) Out-Project OUTDOOR GPS/2017 | Outdoor Lighting Power Allowances Original Market JOE'S GRILL | (Page 2 of 4) | Outdoor Lighting Power Allowances (Page 3 of 4) Frace Name: JOE'S GRILL Cosa Proposed: 6/5/2017 |
| | | | C-3, WATTAGE ALLOWANCE PER SQUARE FOOT OF HARDSCAPE AREA (Ornamental Lighting) – Table 140.7-8 |
| A. OUTDOOR LIGHTING POWER ALLOWANCE SUMMARY 1. General Hardscape Lighting Power Allowance (Site Total from Section B of NRCCLTO-03-E) 1. 596 | C. ADDITIONAL "USE IT OR LOSE IT" OUTDOOR LIGHTING POWER ALLOWANCES FOR SPE The additional specific outdoor lighting power allowance shall be the smaller of the a | | Allowance for the total site illuminated hardscape area. Luminaires qualifying for this allowance shall be rated for 100 watts or less as determined in accordance with |
| Additional Specific "use it or lose it" Lighting Power Allowances listed in each of these cells shall be identical to total allowed watts determined in Section C-1 to C-4 of NRCC-LTO-03-E. | ☐ Use Outdoor Lighting Zone (OLZ) that is documented on page 1 of NRCC-LTO-01-E to | calculate the specific wattage allowances. | Section 130.0(c), and shall be post-top luminaires, lanterns, pendant luminaires, or chandeliers. ☐ If more than one luminaire type is used per location, use multiple rows for that location |
| PER UNIT LENGTH PER HAROSCAPE AREA PER APPLICATION (SALES FRONTAGE) (ORNAMENTAL LIGHTING) PER SPECIFIC AREA | C-1. WATTAGE ALLOWANCE PER APPLICATION - Table 140.7-B | | 01 02 03 04 05 06 07 08 09 10 ALIOTTED WATTS DESIGN WATTS |
| | Available only for qualifying locations, which include Building Entrances or Exits; Prim Emergency Vehicle Facilities; Drive Up Windows; Vehicle Service Station Uncoven | | Name of area for which Wattage Allotted Luminaire ornamental allowance is Square Feet of Allowance per Watts Code or Luminaire Watts per Design Watts Allowed Watts |
| 3, Sum Total ALLOWED Outdoor Lighting Wattage (add rows 1 and 2) 3. 715 | ☐ If more than one luminaire type is used per location, use multiple rows for that locati | | claimed Hardscape Square Foot (02 x 03) Symbol Luminaire Description Quantity Luminaire (07 x 08) (smaller of 04 or 09) |
| B. GENERAL HARDSCAPE LIGHTING POWER ALLOWANCE FROM TABLE 140.7-A | 01 02 03 04 05 ALLOTTED WATTS | DESIGN WATTS | |
| Area Wattage Allowance (AWA) Linear Wattage Allowance (LWA) Allowance ((WA) Linear Wattage Allowance ((WA) Linear Wattage Allowance ((WA) Linear Wattage Allowance ((WA) | Wattage Name of Location for Number of Allowance per Allotted Luminaire | Allowed Watts | |
| 01 02 03 04 05 06 07 08 09 | Which Allowance is Qualifying Qualifying Watts Code or Claimed Locations Location (02 x 03) Symbol Lun | Luminaire Watts per Design Watts (smaller of 04 or injurie Description Quantity Luminaire (07 x 08) 09) | Sum total allowance for ornamental lighting on the site: 0 |
| Name of Aree Illuminated AWA Per Square Foot Hardscape Area Square Foot Square Foot Universe Foot (B05 x 806) (Watts) | | | C-4. WATTAGE ALLOWANCE PER SQUARE FOOT OF SPECIFIC AREA - Table 140.7-B Allowances for Building Facades; Outdoor Sales Lots; Vehicle Service Station Hardscape; Vehicle Service Station Canopies; Sales Canopies; Non-sales Canopies; Tunnels; |
| EXTERIOR LIGHTS 638 0.040 26 143 0.350 50 520 596 | | | Guard Stations; Student Pick-up/Drop-off zone: Outdoor Dining; Special Security Lighting for Retail Parking and Pedestrian Hardscape. |
| | | Sum total allowance per application on this site: 0 | If more than one luminaire type is used per location, use multiple rows for that location |
| | C-2. WATTAGE ALLOWANCE PER UNIT LENGTH (Sales Frontage) from Table 140.7-B | | ALLOTTED WATTS DESIGN WATTS Name of Location for Illuminated Wattage Allotted Luminaire |
| | ☐ If more than one luminaire type is used per location, use multiple rows for that location | | Which Allowance is Area of Allowance per Watts Code or Luminaire Watts per Design Watts Allowed Watts |
| | 01 02 03 04 05 ALLOTTED WATTS | DESIGN WATTS | Claimed Application square Foot (02 x 03) Symbol Luminaire Description Quantity Luminaire (07 x 08) (smaller of 04 or 09) |
| | Name of Location for Wattage Allotted Luminaire Which Allowance is Linear Feet of Allowance per Watts Code or | Luminaire Watts per Design Watts (smaller of 04 or | |
| | | minaire Description Quantity Luminaire (07 x 08) 09) | Sum total allowance for specific area on the site: 119 |
| | | | The second secon |
| TOTAL 596 | | | |
| | | Sum total allowance for sales frontage on the site: 0 | |
| CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance January 2015 | CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance | January 2016 | CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance January 2016 |
| | STATE OF CALIFORNIA OUTDOOR LIGHTING POWER ALLOWANCES | CALIFORNIA ENERGY COMMISSION | |
| | CEC NRCCLTO 03-E (Revised 81/18) CERTIFICATE OF COMPLIANCE | NRCC-LTO-03-E | |
| | Outdoor Lighting Power Allowances Project Name: JOE'S GRILL | (Page 4 of 4) | |
| | Name and the American series (April 2012) and April 2012 and April | - WOLD II | |
| | DOCUMENTATION AUTHOR'S DECLARATION STATEMENT 1. 5 certify that this Certificate of Compliance documentation is accurate and complete. | | |
| | Documentation Author Name: RAMON EDRICK HILARIO | Documentation Author Signature: Storesture Dates: | |
| | The American Engineers | Sgroture Dakie 6/5/2017 EAA Certification identification (if applicable): E-20282 | |
| | Address: 18311 SOUTH WESTERN AVE. City/State/Zip: TORRANCE, CA 90248 | Phone: 310-576-1553 | |
| | RESPONSIBLE PERSON'S DECLARATION STATEMENT | | |
| | I certify the following under penalty of perjury, under the laws of the State of California: The information provided on this Certificate of Compliance is true and correct. I contain the containing of the Information provided on this Certificate of Compliance is true and correct. | or the building design or outpre design identified on this Cartificate of County | |
| | I am eligible under Division 3 of the Business and Professions Code to accept responsibility f (responsible designer). | · • | |
| | The energy features and performance specifications, materials, components, and manufacts Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code 4. The building design features or system design features identified on this Certificate of Comp | of Regulations. | |
| | documents, worksheets, calculations, plans and specifications submitted to the enforcements. I will ensure that a completed signed copy of this Certificate of Compliance shall be made as | t agency for approval with this building permit application. allable with the building permit(s) issued for the building, and made available to the | |
| | enforcement agency for all applicable inspections. I understand that a completed signed cop builder provides to the building owner at occupancy. | by of this Certificate of Compliance is required to be included with the documentation the | |
| | | Responsible Designar Signature: | |
| | Responsible Designer Name: RAMON HILARIO | Date Sound | |
| | Company: HI-TECH ENGINEERING, INC | Date Signed: 6/5/\$2017 Ucense: = 20282 | |
| | Company: HI-TECH ENGINEERING, INC | 6/5/2017 | |

fb + hfonda-bonardi & hohman architects

1450 23rd Street Santa Monica, CA 90404 310-453-1134, 310-828-5830 fax info@tbharchitects.com www.fbharchitects.com

CLIENT Tenant Improvement for Joe's Grill 2912 Main Street Santa Monica ,CA 90405



EXTERIOR LIGHTING TITLE 24 SHEET 4

Piperelyd 0 Ch pln 6/06/17 **E 5.4**

TITLE 24 NOTES

- TITLE 24 FOR AC ENERGY CONSERVATION ALL DUCTWORK INCLUDING INSULATION, SHALL CONFORM TO CALIFORNIA ADMINISTRATIVE CODE, 2016 TITLE 24, AND THE CMC LOW VELOCITY DUCT CONSTRUCTION STANDARDS, LATEST EDITION
- 2. ALL EXHAUST FANS TO BE FURNISHED WITH BACK-DRAFT
- 3. ALL AC UNITS SHALL BE PROVIDED WITH A THERMO-STAT FOR AUTOMATIC REGULATION OF TEMPERATURE AND A FOUR HOUR
- THERMOSTAT AND TIMER SHALL BE READILY ACCESSIBLE AND BE
- 5. ALL THERMOSTATS SHALL BE CAPABLE OF BEING SET TO MAINTAIN SPACE TEMPERATURE SET POINTS FROM 55 DEGREES F. TO 85 DEGREES F. AND SHALL BE CAPABLE OF OPERATING THE SYSTEM HEATING AND COOLING SEQUENCE.
- ALL THERMOSTATS SHALL BE ADJUSTABLE TO PROVIDE A TEMPERATURE RANGE OF UP TO 5 DEGREES F. BETWEEN FULL HEATING AND FULL COOLING AND SHALL HAVE THE CAPABILITY OF TERMINATING ALL HEATING AT A TEMPERATURE NO MORE THAN 70 DEGREES F. AND OF TERMINATING ALL COOLING AT A TEMPERATURE NOT LESS THAN 78 DEGREES F
- TRANSVERSE JOINTS FOR ALL AIR SUPPLY DUCTS INSTALLED WHERE AIR LEAKAGE WOULD BE NON-BENEFICIAL TO THE OCCUPIED AREA TEMPERATURE REQUIREMENTS SHALL BE SEALED WITH APPROVED MASTIC OR TAPE.
- A MAINTENANCE LABEL SHALL BE AFFIXED TO MECHANICAL EQUIPMENT AND A MAINTENANCE MANUAL SHALL BE PROVIDED FOR THE OWNERS USE.

| | AIR DISTRIBUTION |
|----------|---|
| - | CEILING DIFFUSER - CD-1 TYPE: MTLAIR #5000 FILLER PANEL; YES FACTORY OFF WHITE: OPPOSED BLADE DAMPER NO. |
| | CEILING DIFFUSER - HARD CEILING - CD - 1 TYPE: MTLAIR #5000 FACTORY OFF WHITE: OPPOSED BLADE DAMPER _YES |
| | RETURN & EXHAUST AIR GRILLES/REGISTERS TYPE SQUARE GRID 24X12, 24X24, 24X48 FACTORY OFF WHITE OPPOSED BLADE DAMPER NO LAY-IN THE BRAR FOR HARD CELLINGS - USE FRAME & OPPOSED BLADE DAMPER. |
| K | SIDE WALL REGISTER METAL-AIRE MULTI-DIRECTIONAL AD HISTARI E TOWERS WITH ORD |

NOTES TO CONTRACTOR

- CONTRACTORS TO PREPARE SHOP DRAWINGS AFTER CONDUCTING SITE SURVEY, THE SHOP DRAWINGS MUST PROVIDE THE NECESSARY INSTALLATIONS, CUSTOMIZED ACCORDING TO ACTUAL SITE CONDITIONS. PROVIDE A COPY TO THE CLIENT, ARCHITECT & ENGINEERS A WEEK PRIOR TO MOBILIZATION
- CONTRACTOR TO PREPARE TWO COPIES OF RED LINE AS-BUILT DRAWINGS USE THE SHOP DRAWINGS AS THE BASE PLAN. RED PENCIL (NOT PEN) TO UPDATE THE SAID AS-BUILT EVERYDAY. THE FIRST COPY IS FOR TECHNICIAN REFERENCE WHILE WORKING. THE SECOND COPY SHOULD BE KEPT CLEAN, NEAT, & LEGIBLE. THIS SHALL BE USE FOR INSPECTION, MEETING, RFI PREPARATION, AND OTHER APPLICATIONS WHEREON A CLEAN, NEAT & LEGIBLE COPY IS NECESSARY. PRIOR TO RELEASE OF FINAL PAYMENT, THE SECOND COPY MUST BE CERTIFIED BY THE CONTRACTOR'S LICENSEE AS COMPLETE & CORRECT. SCAN AND PROVIDE ELECTRONIC COPY TO THE CLIENT, ARCHITECT, & ENGINEERS. THE HARD COPY MUST BE KEPT BY THE CONTRACTOR DURING WARRANTY PERIOD AND MUST BE SUBMITTED TO STORE MANAGER ON THE LAST DAY OF WARRANTY.
- THE GENERAL CONTRACTOR MUST DISCUSS & SUPPORT THEIR SUBCONTRACTOR. IF THE SUBCONTRACTOR NEEDS INFORMATION THAT NEEDS ENGINEER'S SUPPORT. THE GENERAL CONTRACTOR MUST, USING ITS OFFICIAL FORM, SEND REQUEST FOR INFORMATION (RFI) TO THE ARCHITECT OF RECORDS. COPY FURNISH THE ENGINEERS. THE REI MUST BE CONCISE & SUPPORTED W/ SKETCH, DRAWINGS, CUT SHEET AND/OR OTHER MATERIALS THAT WILL HELP THE ENGINEERS RESPOND PRECISELY
- ALL WORK AND MATERIAL SHALL BE IN ACCORDANCE WITH THE LANDLORD'S "ENGINEERING DESIGN CRITERIA"
- ALL CONTRACTORS SHALL OBTAIN A COPY FROM THE LANDLORD'S TENAN COORDINATOR OR OPERATIONS MANAGER: AND BECOME FAMILIAR WITH THE REQUIREMENTS CONTAINED WITHIN PRIOR TO BIDDING THE JOB
- WHERE LANDLORD'S REQUIREMENTS CONFLICT WITH CODES OR ORDINANCES. THE STRICTEST INTERPRETATION SHALL APPLY.

GENERAL NOTES

- POWER WIRING, CONDUIT, SWITCHES AND TIME CLOCKS SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.
- LOW VOLTAGE WIRE AND CONDUIT SHALL BE FURNISHED & INSTALLED BY ELECTRICAL CONTRACTOR. FINAL CONNECTIONS BY AIR CONDITIONING CONTRACTOR
- CONDENSATE DRAIN PIPING (COPPER OR GALV.) TO AN APPROVED RECEPTOR BY PLUMBING CONTRACTOR. CONDENSATE DRAIN TO BE TRAPPED SEE DETAIL.
- GENERAL CONTRACTOR SHALL FURNISH AND JOR INSTALL CUTTING PATCHING, FRAMING, ROOF-ING, PAINTING, EQUIPMENT SCREENING, CURBS, OR PLATFORMS WITH THE REQUIREMENTS OF THE AIR
- EQUIPMENT, INSTALLATION AND OPERATION SHALL BE IN ACCORDANCE WITH ALL APPLICABLE CODES
- ALL A/C SYSTEMS SHALL BE TESTED AND BALANCED IN ACCORDANCE WITH AABC GUIDELINES. THE T & B CONTRACTOR SHALL NOTIFY MECH CONTRACTOR OF ANY DEFICIENCY IN THE SYSTEMS AND HAVE THEM CORRECTED PRIOR TO FINAL APPROVAL & START UP OF A/C SYSTEMS THE PROPER AMOUNT OF OSA SHALL COMPLY WITH T-24
- ALL FIELD INSTALLED REFRIGERATION PIPING WITH R-410A REFRIGERANT SHALL BE
- 7.1. INSTALLED BY CERTIFIED INSTALLER
- 7.2. LEAK TESTED @ 2650PSI
- 7.3. RETESTED FOR LEAKS AND REPORT PROVIDED TO MECHANICAL
- TYPE II HOOD EXHAUST DUCT SHALL BE G.I. OR BLACK STEEL 18 GAGE -ALL WELDED CONSTRUCTION

TYPE I KITCHEN HOOD

CAPTIVE AIRE NO-2 4824 PSP SECTION CONSTRUCTION EXHAUST HOOD, ULLISTED FOR MEDIUMTEMP APPLICATIONS, COMPLETE WITH EXHAUST AND SUPPLY CONNECTIONS, INCADESCENT LIGHTS, CLEANABLE BAFFLE GREASE FILTERS, HANGERS AND BRACKETS AND DRY CHEMICAL FIRE EXTINGUISHING SYSTEM, SIZES AS SHOWN BELOW. PROVIDE FIRE DAMPERS FOR SUPPLY CONNECTION.



HOOD EP CONTROLS SHALL SHUT OFF GAS SUPPLY VALVE AND KITCHEN VENTILATION SYSTEM DURING FIRE EMERGENCY. (TWO (2) NC CONTACTS AVAILABLE FOR THIS). SEE PLUMBING FLOOR PLAN FOR LOCATION OF VALVE

VENTILATION AND PURGE CYCLE

AS REQUIRED BY CEC ALL VENTILATION SHALL MEET CEC GUIDELINES. A/C UNITS SHALL START 1 HR. PRIOR TO OCCUPANCY AND CYCLE TO PROVIDE PURGE CYCLE.

DUCT CONSTRUCTION STANDARDS

| ALL WORK S | ALL WORK SHALL CONFORM TO THE FOLLOWING 2013 CMC SECTIONS | | | | | | | | | |
|------------|---|--|--|--|--|--|--|--|--|--|
| SECTION | DECRIPTION | | | | | | | | | |
| 602 | DUCT MATERIAL | | | | | | | | | |
| 603 | INSTALLATION OF DUCTS | | | | | | | | | |
| 604 | DUCT INSULATION | | | | | | | | | |
| 605 | SMOKE, FIRE AND CEILING DAMPERS | | | | | | | | | |
| 606 | AUTOMATIC SHUT OFFS | | | | | | | | | |

FIRERATED DUCT WRAP

IF APPROVED BY LOCAL BUILDING AND SAFETY DEPARTMENT, CONTRACTOR HAS THE OPTION TO USE U.L. LISTED 3M-20A (FIRE TEMP) 2 HOUR RATED DUCT WRAP FOR GREASE DUCTS. IF INSTALLED PER MANUFACTURER'S INSTRUCTION

MECHANICAL NOTES

RRAWINGS FOR EXACT LOCATION OF ALL CEILING DIFFUSERS, LINEAR IN THE WORK OF OTHER TRADES DUE TO DEVIATIONS FROM THE CONTRACT DOCUMENTS. ANY GRILLES AND EQUIPMENT ACCESS PANELS. COORDINATE ANY AND ALL CHANGES SHALL BE SHOWN ON RECORD AND AS-BUILT DRAWINGS ANCIES PETWEEN DRAWINGS BEFORE PROCEEDING IN THE FIELD.

- CONTACT OR STALL TOUTINE DRAWING PER CONTRACT DOCUMENT AS MUCH AS POSSIBLE AND ARCO DE ATION IN LAYOUT SHALL BE APPROVED BY THE ARCHITECT
- CONTRACTOR SHALL SUBMIT ONE (1) SET OF VELLUM AS-BUILTS AND TWO (2) SETS OF BLUE LINE AS-BUILTS TO THE BUILDING OWNER AND ONE SET OF VELLUMS AND ELECTRONIC
- ALL EQUIPMENT & MATERIALS SHALL MATCH BASE BUILDING SPECIFICATIONS AND
- DUCT DIMENSIONS SHOWN ARE NET INSIDE DIMENSIONS
- INSTALL CFSD & FIRE DAMPER ON ALL DUCTS PENETRATING FIRE RATED ENCLOSURES, PARTITIONS, AND TUNNEL CEILINGS. PROVIDE ACCESS PANELS FOR ALL CFSD & FD ABOVE INACCESSIBLE CEILINGS. PROVIDE SMOKE DETECTOR DEVICE IN DUCTWORK CONNECTED 31. TO CFSD. INSTALL DUCT S.D. PER MANUFACTURER'S APPROVED LISTING & INSTALLATION
- ALL FIRE OR COMBINATION FIRE SMOKE DAMPERS ARE NEW UNLESS OTHERWISE NOTED. EXISTING FIRE OR COMBINATION FIRE SMOKE DAMPERS THAT ARE NOT TO BE UTILIZED
- ALL DUCTWORK SHALL BE GALVANIZED STEEL, ALL DUCTWORK AND LINING SHALL BE CONSTRUCTED AND INSTALLED PER SMACNA "HVAC METAL DUCT CONSTRUCTION STANDARDS" LATEST EDITION. ALL 45-DEGREE LEADING EDGES, CONICAL TAP-IN FITTINGS, EXTRACTORS, TURNING VANES (WHERE APPROPIATE), PROPERLY DESIGNED PLENUMS, AND 34. OTHER SHEET METAL FITTING AND AIR FLOW DEVICES SHALL BE INSTALLED PER THESE SMACNA GUIDELINES.
- SIZE OF DUCT & BRANCH DUCT SHALL BE SAME SIZE AS NECK OF CEILING DIFFUSER OR CEILING REGISTER. PROVIDE FLEXIBLE DUCT MAXIMUM OF 5' TO THE DIFFUSERS.
- EXISTING DUCTWORK ACTUAL LENGTH AND SIZE MAY BE DIFFERENT THAN WHAT IS INDICATED ON THE PLANS. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND PROVIDE ALL OFFSETS AND TRANSITIONS, AS REQUIRE FOR A COMPLETE INSTALLATION.
- PROVIDE A VOLUME DAMPER IN EACH BRANCH DUCT TO OUTLET WHETHER SHOWN ON DRAWING OR NOT. DAMPERS SHALL BE AS FAR AWAY FROM DIFFUSER AS POSSIBLE, PREFERABLY AT THE BRANCH TAKE-OFF. CONTRACTOR SHALL TAG VOLUME DAMPERS WITH
- 12. A MINIMUM OF 30" WIDE BY 30" HIGH CLEAR WORKING SPACE SHALL BE PROVIDED IN FRONT ACCEPTABLE TO OWNER. OF THE ACCESS PANELS TO ALL A/C UNIT'S COMPRESSOR, BLOWER ASSEMBLY, & THE AIR
- 13. A MINIMUM OF 36" CLEAR WORKING SPACE, NOT LESS THAN 30" WIDE, SHALL BE MAINTAINED IN FRONT OF ALL SWITCHES, OVERCURRENT DEVICES AND ELECTRIC CONTROL
- INTERLOCK ALL MOVING AIR EQUIPMENT SUCH AS FANS WITH THE FIRE LIFE SAFETY SYSTEM ALL A/C UNITS & EXHAUST FANS SHALL SHUT OFF WITH THE AIR HANDLING UNIT UPON DETECTION OF SMOKE BY THE FLS SYSTEM.
- CONTRACTOR SHALL PROVIDE POWER, ELECTRICAL WIRING, CONDUITS, FOR ALL NEW, EXISTING AND RELOCATED AC UNITS AND SMOKE DETECTORS INTERLOCKS
- ALL PIPING AND ASSOCIATED FITTINGS AND VALVES SHALL BE OF SIMILAR MATERIAL PER REPLACE ANY DAMAGE OR MISSING INSULATION. CODE LINESS APPROVED OTHERWISE PROVIDE DIFLECTRIC COUPLING BETWEEN JOINTS
- 17 ALL PIPING SHALL BE LAREL EVERY 10 FT, MER SHALL BE MSLOR APPROVED EQUAL.
- 18. ALL PIPING& DUCT PENETRATION THROUGH RATED CONSTRUCTION SHALL BE PROPER FIRE NON-COMBUSTIBLE MATERIAL STOP WITH UL-LIST FIRE STOPPING PRODUCTS. CONSULT WITH UL FIRE RESISTANCE DIRECTORY FOR ADDITIONAL REQUIREMENTS
- ALL PIPING & DUCTS PENETRATION THROUGH NON-RATED CONSTRUCTION SHALL BE PROPERLY AND GENEROUSLY CAULKED WITH SOUND RESISTANT MATERIAL SUCH AS SILICONE LISE ACQUISTICAL SEALANT AROUND DUCTS INSTALLED INTO ACQUISTICAL
- CONTRACTOR TO PROVIDE TRANSFER DUCTS, SIZED PER OUR DETAIL, FOR ALL ROOMS ENCLOSED BY FULL HEIGHT WALLS ON ALL SIDES
- 21. ALL EXISTING INSULATION ON THE MAIN DUCTWORK THAT IS LOOSE OR DAMAGED SHALL BE REPLACED BY THE CONTRACTOR
- 22. CONTRACTOR SHALL PATCH AND REPAIR ANY AIR LEAKAGES AND HOLES ON EXISTING
- 23. CONTRACTOR SHALL LABLE ALL THERMOSTAT BY ITS CORRESPONDING TERMINAL AIR UNIT
- ALL COMBINATION FIRE/SMOKE DAMPERS SHALL BE CALIFORNIA FIRE MARSHALL LISTING. THE FOLLOWING LISTINGS ARE BASED ON POTTORFF. EQUIVALENT MANUFACTURER'S PRODUCT WITH LISTING SHALL BE SUBMITTED FOR APPROVAL
- MODEL STATE FIRE MARSHALL LISTING FIRE 03225-0368:008 COMB. FSD-40 SERIES SMOKE 03230-0388:105 FIRE/SMOKE
- CONTRACTOR TO FURNISH FULL SIZE SHOP DRAWINGS SHOWING ALL DUCT ROUTING, EQUIPMENT LOCATIONS, DIFFUSER, & THERMOSTAT LOCATIONS, AND ANY OTHER PERTINENT HVAC ITEMS. FLANGES SHALL BE SUBMITTED AS SHOP DRAWINGS. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR PAYMENT OF ALL CHARGES RESULTING FROM ANY ADDITIONS OR CHANGES

- PROVIDE DUCT FLEX CONNECTORS ON ALL SUPPLY AND RETURN DUCT CONNECTIONS TO A/C UNITS OR EXHAUST FANS.
- AREAS ABOVE NONE DUCTED RETURN AIR GRILLED SHALL BE PAINTED FLAT BLACK TO MASK "SEE THROUGH" EFFECT
- ALL DUCTWORK SHALL BE CONSTRUCTED, ERECTED AND INSTALLED IN ACCORDANCE WITH LIMC CHAPTER 6
- THIS PROJECT SHALL COMPLY WITH THE LATEST EDITION OF THE CALIFORNIA BUILDING CODE (TITLE 24), WHICH HAS BEEN ADOPTED BY LOCAL CODES, MECHANICAL CODE, CALIF. PLUMBING CODE AND THE CALIF. ELECTRICAL CODE
- THE FIRE RATED CORRIDORS ARE NOT TO BE USED TO CONVEY AIR TO OR FROM ROOMS UMC SECTION 602.1
- THERE ARE NO ENVELOPE ALTERATIONS TO BE DONE ON THE BUILDING.
- AIR & WATER BALANCE TO BE PERFORMED BY AN INDEPENDENT AABC CONTRACTOR. AIR BALANCE TO INCLUDE ALL A/C UNITS, VAV'S, BATHROOM EXHAUST FANS AND SUPPLY GRILLES AS REQUIRED. LITTLIZE APPROVED BUILDING AIR BALANCE COMPANY, ALL AIR AND WATER BALANCE TO BE IN ACCORDANCE WITH AABC STANDARDS
- ALL PIPING AND ASSOCIATED FITTINGS AND VALVES SHALL BE OF SIMILAR MATERIAL PER CODE, UNLESS APPROVED OTHERWISE. PROVIDE DIELECTRIC COUPLING BETWEEN JOINTS OF DISSIMILAR MATERIALS.
- RUN ALL DUCTS AS TIGHT AS POSSIBLE TO STEEL BEAMS. ALL PIPINGS OTHER THAN CONDENSATE SHALL BE ROUTED ABOVE THE DUCTWORK UNLESS APPROVED OTHERWISE.
- ROOM THERMOSTATS SHALL BE PER BUILDING STANDARDS AND COMPATIBLE WITH WHERE CONNECTING BRANCH DUCTWORK TO CEILING DIFFUSERS AND CEILING REGISTERS, THERMINAL AIR UNIT OPERATORS. ADJUSTABLE RANGE SHALL BE 10°F BETWEEN FULL HEATING AND FULL COOLING, OPERATING IN SEQUENCE, SET AT 70°F HEATING AND 74°F COOLING. COORDINATE FINAL LOCATION WITH ARCHITECT PRIOR TO INSTALLATION.
 - CONTRACTOR SHALL COORDINATE VOLTAGE AND PHASE OF EACH PIECE OF EQUIPMENT THE ELECTRICAL CONTRACTOR PRIOR TO ORDERING.
 - CONTRACTOR SHALL PROVIDE WRITTEN WARRANTY TO REPLACE ALL FAULTY MATERIALS AND/OR LABOR AT NO COST TO OWNER FOR A PERIOD OF ONE YEAR FROM DATE OF OWNER ACCEPTANCE.
 - LIPON COMPLETION OF WORK CONTRACTOR SHALL CLEAN AND REMOVE ALL DEBRIS ASSOCIATED WITH HIS/HER WORK AND DISPOSE OF IT. AREA SHALL BE LEFT IN A CONDITION
 - PROVIDE ACCESS PANELS FOR ALL NEW OR EXISTING EQUIPMENT AND VALVES LOCATED
 - CONTRACTOR SHALL SEAL ALL UNUSED DUCT OPENINGS AND REPAIR ALL LEAKING DUCTS
 - CEILING SPACES USED AS RETURN AIR PLENUMS SHALL FULLY COMPLY WITH ALL THE PROVISIONS OF SECTIONS 601 1-601 2
 - SEAL ALL DUCTS AND JOINTS WITH HIGH VELOCITY, WATER BASED, UL-FIRE RATED DUCT
 - CONTRACTOR SHALL SEAL ANY AIR LEAKAGES OR HOLES ON EXISTING DUCTWORKS.
 - RUN 1" TYPE L COPPER CONDENSATE DRAIN LINES FROM EACH A/C UNIT TO NEAREST
 - 45. CONDENSATE DRAIN PIPING INSTALLED WITHIN A RETURN PLENUM SHALL BE
 - ALL RETURN AIR IS VIA RETURN GRILLES AND CEILING PLENUM EXCEPT TOILET ROOMS, ELECTRICAL ROOMS AND TUNNEL TYPE CORRIDORS. ALL MATERIAL EXPOSED WITHIN THE PLENUM SHALL COMPLY WITH UMC SECTION 604.2. "MATERIALS SHALL HAVE A MOLD. HUMIDITY AND EROSION-RESISTANT FACE THAT MEETS THE REQUIREMENTS OF UL 181
 - COMBUSTIBLE WITHIN THE PLENUM SPACE MUST COMPLY WITH LIMC SECTION 601.3. FLAME-SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE DEVELOPED RATING OF NOT MORE

| | MECHANICAL SHEET INDEX | |
|--------|--|---------------|
| SHEET# | SHEET TITLE | REMARKS/ISSUE |
| M0.1 | GEN NOTES SYMBOLS LEGENDS ABBREV & SHEET INDEX | PLAN CHECK |
| M0.2 | MECHANICAL SCHEDULE AND NOTES | PLAN CHECK |
| M2.1 | MECHANICAL FLOOR & ROOF PLAN | PLAN CHECK |
| M4.1 | MECHANICAL DETAILS | PLAN CHECK |
| M4.2 | MECHANICAL HOOD DETAILS SHEET 1 | PLAN CHECK |
| M4.3 | MECHANICAL HOOD DETAILS SHEET 2 | PLAN CHECK |
| M4.4 | MECHANICAL HOOD DETAILS SHEET 3 | PLAN CHECK |
| M5.1 | MECHANICAL TITLE 24 | PLAN CHECK |

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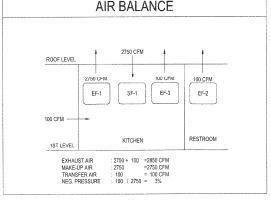
architects

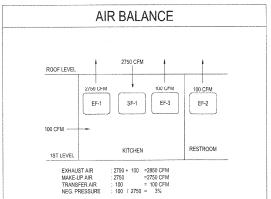
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CLIENT Tenant Improvement for Joe's Grill 2912 Main Street Santa Monica ,CA 90405



GEN NOTES SYMBOLS LEGENDS ABBREV & SHEET INDEX





| (s) | 목 | JIFORAL | | | EX | HAUST | FAN S | CHEDU | LE | | | | | Y |
|--------|---------------------|------------------|------------|----------|-----------|----------|-------|-------|------------|------|---|----------|----------|---------------|
| 1 | SOUNDED 1815 | | | | | FOD (IN) | | | MOTOR DATA | | | OPER WT. | SERVICE | REMARKS |
| MAPK 9 | /1 ⁴ 1/1 | 1 MODEL FAN TYPE | FAN TYPE | MOUNTING | TOTAL CFM | ESP (IN) | HP | w | FLA | V | Ø | LBS. | | |
| EF-17 | BLDRE | JSB1412 | BELT DRIVE | ROOF | 2750 | 0.750 | 1.0 | - | 4.5 | 230V | 1 | 385LBS | KITCHEN | 1,2,3,4,5,6,7 |
| EF-2 | GREENHECK | SP-B110 | CLG MTD | CEILING | 100 | 0.250 | - | 80.2W | 1.14 MCA | 115V | 1 | 10LBS | TOILET | 2 |
| EF-3 | GREENHECK | SP-B110 | CLG MTD | CEILING | 100 | 0.250 | - | 80.2W | 1.14 MCA | 115V | 1 | 10LBS | DISHWASH | 2 |

- 1. DISCONNECT SWITCHES (BY ELECTRICAL CONTRACTOR). 4. UL LISTEDD FOR RESTAURANT/KITCHEN EXHAUST.
- 2. PROVIDE WITH BACKDRAFT DAMPER.
- 5. WITH VENTED ROOF CURB AND GREASE TERMINATOR.
- 3. PROVIDE WITH SPEED CONTROL AND INTERLOCK WITH 6. BY KITCHEN CONSULTANT. THE HOOD MUA..
- 7. PROVIDE MOTION CONTROL SHUT-OFF TO SET A 1 MINUTE AFTER THE ROOM IS VACATED.
- 8. SPECIFIED MECHANICAL ITEMS CAN BE REPLACED WITH ITEMS OF APPROVED EQUAL.

| | | | | M | AKE-UP | AIR L | INIT SC | CHEDUL | .E | | | | |
|------|-----------------|--------|----------|----------|-----------|----------|---------|--------|-------|----|----------|---------|---------|
| | | | | | | | | MOTOR | RDATA | | | | |
| MARK | MAKE | MODEL | FAN TYPE | MOUNTING | TOTAL CFM | ESP (IN) | НР | FLA | ٧ | PH | WT. LBS. | SERVICE | REMARKS |
| SF-1 | CAPTIVE AIRE | A2-G12 | CENT | ROOF | 2750 | 0.750 | 1.5 | 6.8 | 230V | 1 | 609LBS | KITCHEN | |

| | DIFFUSER SCHEDULE | | | | | | | | | | | | |
|------|-------------------|--------|------------------|---------------------|--------------------|----------|--|--|--|--|--|--|--|
| MARK | CFM RANGE | TYPE | MAX. SP (IN.) | FRAME SIZE (IN.) | NECK SIZE (IN.) | MAX N.C. | REMARKS | | | | | | |
| CD-1 | 0 - 120 | SQUARE | 0.1 | 12X12 | 6X6 | 25 | TITUS MODEL TSW, PERFORATED SUPPLY, MODULAR CORE | | | | | | |
| CD-2 | 121 - 220 | SQUARE | 0.1 | 12X12 | 8X8 | 25 | TITUS MODEL TSW, PERFORATED SUPPLY, MODULAR CORE | | | | | | |
| CD-3 | 221-350 | SQUARE | 0.1 | 12X12 | 10X10 | 25 | TITUS MODEL TSW, PERFORATED SUPPLY, MODULAR CORE | | | | | | |
| CD-4 | 351 - 500 | SQUARE | 0.1 | 12X12 | 12X12 | 25 | TITUS MODEL TSW, PERFORATED SUPPLY, MODULAR CORE | | | | | | |
| | | | | | | | | | | | | | |
| EG-1 | 0-300 | SQUARE | 0.1 | 12X12 | 8X8 | 30 | TITUS MODEL 355RL, EXHAUST GRILLE | | | | | | |
| EG-2 | 0-1000 | SQUARE | 0.1 | 24X24 | 22X22 | 30 | TITUS MODEL 35ORLF, EXHAUST GRILLE | | | | | | |
| | | | | | | | | | | | | | |

NOTES:
PINAL DOK, LOCATION, AND COLOR SCHEME SHALL BE COORDINATED AND APPROVED WITH / BY ARCHITECT.
PROVIDE DAMPERS ABOVE A HARD LID CEILING, VERIFY PULLEY
COORDINATE DIFFUSER BORDER TYPE WITH REFLECTED CEILING PLAN.

| Alf | R BALANCE TAB | LE |
|-----------|---------------|-------------|
| SYMBOL | EXHAUST CFM | MAKE-UP AIR |
| EF 1 | 2750 | - |
| EF 3 | 100 | - |
| (SF) 1 | _4 | 2750 |
| TOTAL | 2850 | 2750 |

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fonda-bonardi & hohman architects

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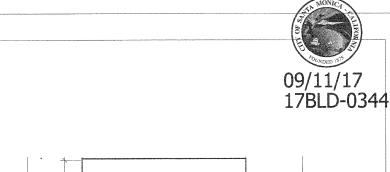


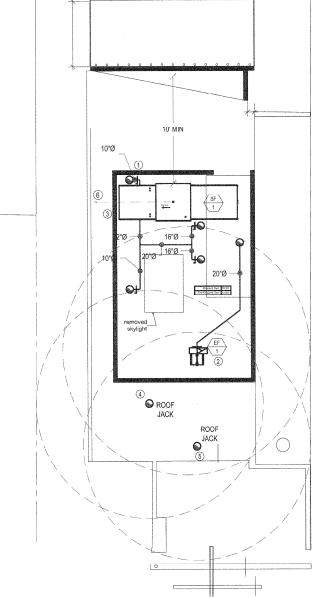
| CHANGES REVISIONS #1 | | | | | | | | |
|----------------------------|--------------------------|----------------------|-------------|---------|------------|----------------------|------------------------|--|
| Der 2016 As-Built Drawings | ARB and SCHEMATIC DESIGN | Consruction Drawings | REVISED ARB | BIDDING | PLAN CHECK | PLAN CHECK REVISIONS | CONSTRUCTION DOCUMENTS | |
| per 2016 | 91 | 7 | 210 | 717 | 117 | | | |

MECHANICAL SCHEDULE AND NOTES

REFERENCE NOTE

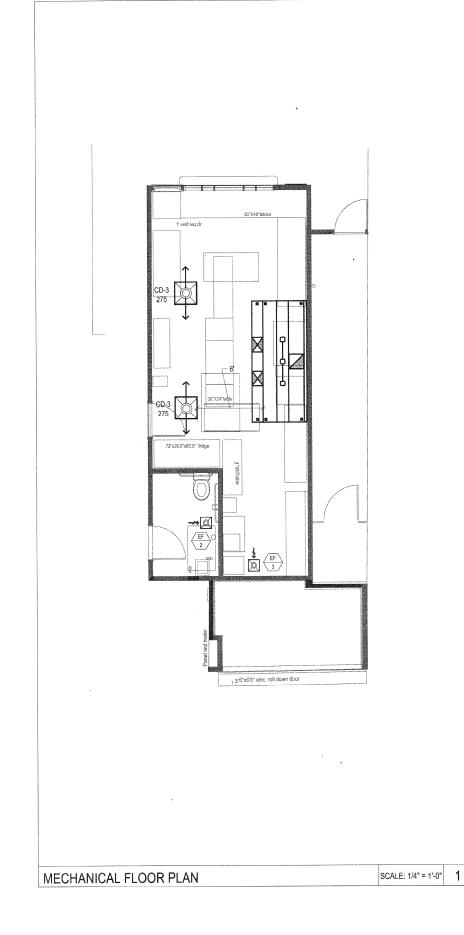
- 1 PROVIDE R-8 INSULATION FOR EXTERIOR DUCT.
- 2 PROVIDE NEW EF-1 EXHAUST FAN. INSTALL 10FT. AWAY FROM ALL OPERABLE WINDOWS OR DOORS AND ALL AIR INTAKE. COORDINATE WITH ARCHITECT TO VERIFY LOCATION.
- ③ PROVIDE NEW SF-1 MAKE-UP AIR WITH SWAMP COOLER WITH SIDE DISCHARGE. COORDINATE WITH ARCHITECT TO VERIFY LOCATION.
- 4 PROVIDE NEW EF-2 EXHAUST FAN FOR RESTROOM TO INSTALL AND TERMINATE WITH ROOF JACK, OR EQUAL, FIELD TO VERIFY LOCATION.
- PROVIDE NEW SF-3 EXHAUST FAN FOR KITCHEN DISHWASHING AREA TO INSTALL AND TERMINATE UP THRU THE ROOF WITH ROOF JACK OR EQUAL. FIELD TO VERIFY LOCATION.
- (B) 11/2 DRAIN PIPE TO TERMINATE TO FLOOR SINK, REFER TO PLUMBING PLANS TO VERIFY LOCATION.





MECHANICAL ROOF PLAN

SCALE: 1/4" = 1'-0" 1



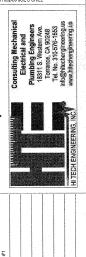
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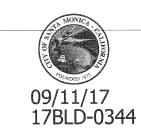
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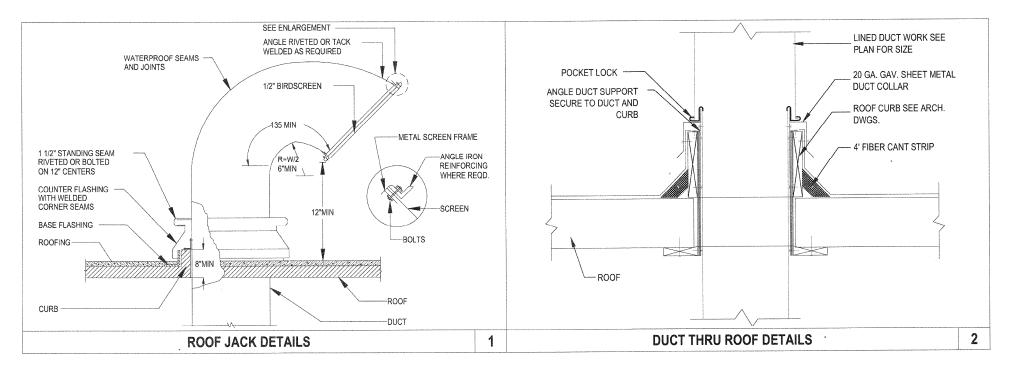




MECHANICAL FLOOR & ROOF PLAN

M2.1





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Santa Monica ,CA
90405



17002-09 JOE'S GRI





| CHANGES REVISIONS #1 | | | | | | | |
|---------------------------------|--------------------------|----------------------|-------------|-----------|------------|----------------------|--|
| awings | ARB and SCHEMATIC DESIGN | Consruction Drawings | 4RB | | iok iok | PLAN CHECK REVISIONS | CONSTRUCTION DOCUMENTS |
| As-Built D | ARB and | Consructic | REVISED ARB | BIDDING | PLAN CHECK | PLAN CHE | CONSTRI |
| November 2016 As-Built Drawings | 12/29/16 | 1/23/17 | 1/30/2017 | 2/20/2017 | 5/27/2017 | | And the last of th |

MECHANICAL DETAILS

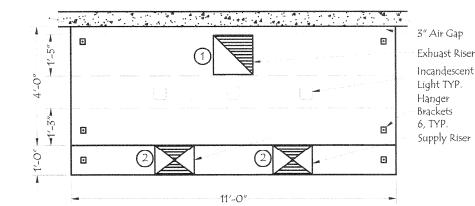
Pipersky4.0 GD.pi

M4.1





3″ Air Gap Exhaust Chamber



MAX.

COOKING

ТЕМР.

700

Deg.

LENGTH

132"NOM

132"OD

H00D N0.

MODEL

HM-HBOX 11X48

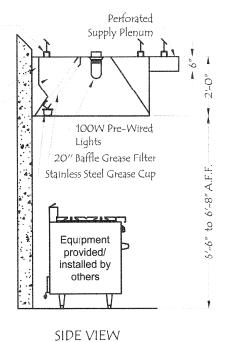
PLAN VIEW SCALE: 3/4"=1'-0"

TOTAL EXH. CFM

2750

1 EXHAUST PLENUM

WIDTH LENG. QTY.

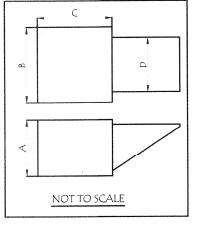


SCALE: 3/8"=1'-0"

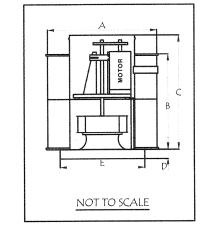
LENG. QTY.. CFM S.P.

1100

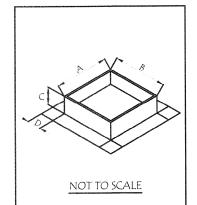
SUPPLY PLENUM



| FAN MODEL | Α | В | C | D | WT. LBS. |
|-----------|-----|-----|-----|--------|-------------|
| HMSF5 | 24" | 22″ | 22" | 151/8″ | 99 LBS. |



| FAN MODEL | А | В | C | D | E | WT. LBS. |
|-----------|-----|---------------|--------|----|---------|-------------|
| HMEX36-B | 38" | 22 ½ ″ | 251/8" | 2" | 28″ SQ. | 165 LBS. |



| FAN MODEL | А | В | С | D |
|-----------|-----|-----|-----|----|
| НМЕХЗ6-В | 27" | 27" | 18" | 4" |
| HMSF7 | 31″ | 31″ | 10″ | 4" |

NOTE: IT IS THE

RESPONSIBILITY OF THE

ARCHITECT/OWNER TO
ENSURE THAT THE HOOD
CLEARANCE FROM
LIMITED-COMBUSTIBLE AND
COMBUSTIBLE MATERIALS IS IN
COMPLIANCE WITH LOCAL
CODE REQUIREMENTS.

ALL ÉQUIPMENT IS UL
LISTED COMPONENTS
HOODMART HOODS ARE
BUILT IN COMPLIANCE WITH
NFPA #96 & UL/10
AND ARE RECOGNIZED BY ONE
OR MORE OF THE FOLLOWING:
NSF INTERNATIONAL
ETL.

HOODMART.

EQUIPMENT SCHEDULE

HBOX PSP WITH FRESH AIR

SHT -OF -

CONTRACT NO. -

LOC: -CUST: -CUST#:

DWG#-11381

(NSF.)

| | FILTE | ER(S) | (Annyelse) mejelembe (assentet fin sense) | | LIGHT(S) | THE PERSON NAMED IN THE PE | | | utility cabinet(s) | | | | HOOD |
|-------------|-----------------------------|--------|---|------------|--------------------|--|---------------|----------|--------------------|----------------------|--------------------|----------|----------------|
| HOOD NO. | TYPE | QTY. | HEIGHT | length | TYPE | QTY. | WIRE GUARD | TYPE FIR | RE SYSTEM SIZE | ELECTRICAL MODEL# | switch Quantity | LOCATION | HOOD WEIGHT |
| 1 | S.S. BAFFLE WITH HANDLES | 2 5 | 20" 20" | 16" 20" | incandescent light | 3 | NO . | PYROCHEM | PCL | | | НООР | 450 LBS. |

TOTAL SUP. CFM

2200

12"

| FAN | | | | Ε× | (HAUST FA | ٨N | | | egy yyang ang ang ang ang ang ang ang | | | | | SUPPL | y fan | | | | | | 1 | | l |
|-------------|------------------|----------|------|------|-----------|------|------|---|---------------------------------------|--------|--------|---------|-----|-------|-------|-----|------|---|------|-----|------|----|-----------|
| UNIT NO. | FAN UNIT MODEL# | MODEL | TAG | CFM | S.P. | RPM | H.P. | Ø | VOLT | FLA | BLOWER | Housing | TAG | CFM | S.P. | RPM | H.P. | Ø | VOLT | FLA | | | |
| 1 | HMEX36-B EF-1 | HMEX36-B | EF-1 | 2750 | .750″ | 1346 | 1 | 1 | 115/230 | 13/6.5 | | | | | | | | | | | | | |
| 2 | HMSF7 SF-1 | | | | | | | | | | HMSF7 | | SF1 | 2200 | .250″ | 517 | 1/2 | 1 | 115 | 7.2 | DATE | BY | SC/ Al |

FOR REFERENCE ONLY

HOOD CONSTRUCTION

AINLESS/ALVMINIZEI

Consulting
Electric
Electric
Plumbing
1831 S. W
1831 S. W
1680 S. Web 3f
Tel Mo 3f
Tel

fb+h

1450 23rd Street Santa Monica, CA 90404 310-453-1134, 310-828-5830 fax info@fbharchitects.com www.fbharchitects.com

Tenant Improvement for Joe's Grill 2912 Main Street

Santa Monica ,CA 90405

CLIENT

| er 2016 | er 2016 As-Built Drawings | CHANGES REVISIONS #1 | |
|--|---------------------------|----------------------|---|
| 9 | ARB and SCHEMATIC DESIGN | | |
| | Consruction Drawings | | |
| 17 | REVISED ARB | | |
| 17 | BIDDING | | |
| 17 | PLAN CHECK | | |
| | PLAN CHECK REVISIONS | | H |
| AND DESCRIPTION OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NA | | | - |

MECHANICAL HOOD DETAILS SHEET 1

M4.2

FYHAIIST FAN INFORMATION - Joh#3060816

MUA FAN INFORMATION - Job#3060816

FAN UNIT MODEL #

| EXHA | AUST | <u>FAN INFORMATION - Job</u> | #30608 | 316 | · | | | , | y | | Pro- | | | _ |
|-----------------|------|------------------------------|--------|-------|------|-------|--------|---|------|-----|--------------------|------------------|-------|---|
| FAN UNIT NO. | TAG | FAN UNIT MODEL# | CFM | ESP. | RPM | H.P. | B.H.P. | ø | VOLT | FLA | DISCHARGE VELOCITY | WEIGHT (LBS.) | SONES | |
| 1 | | USBI18BD-RM | 2750 | 0.750 | 1010 | 1.000 | 0.7660 | 1 | 230 | 4.5 | 1410 FPM | 385 | 12.1 | |

| | 0.750 | 1010 | 1.000 | 0.7660 | 1 | 230 | 4.5 | 1 | 1410 FPI | ð | 385 | 12.1 | | | | | | |
|---|---------|---------------|-------|--------|---|-------|--------|---|----------|-----|----------------------------------|-----------------------|------------------|---------------------------------|---------------------------------|------------------|-------|--|
| | | | | | | | | | | | - No | | | | | | | |
| | HOUSING | DESIGN CFM | ESP. | RPN | | H.P. | B.H.P. | ø | VOLT | FLA | EVAP COOLER ENTERING DB TEMP. | EVAP CO ENTERING W | OLER VB TEMP. | EVAP COOLER LEAVING DB TEMP. | EVAP COOLER LEAVING WB TEMP. | WEIGHT (LBS.) | 30NE3 | |
| Ī | A2 | 2750 | 0.750 | 850 | | 1.500 | 0.8580 | 1 | 230 | 6.8 | 90.0°F | 64.0° | F | 70.0°F | 64.0°F | 609 | 24 | |

| - | |
|-----|---------|
| FAN | OPTIONS |

FAN UNIT NO. 1AG

| FAN UNIT NO. | TAG | OPTION (Qby Desor.) |
|--------------------|-----|--|
| | | 1 - Bl18 - 24" Discharge Extension. |
| | | 1 - BI - Discharge Orientation Vertical Upper Left - CW Inlet Side. |
| ١. | | 1 - Utility Set Grease Cup |
| ' | | 1 - Bl18 - Inlet Ring Used To Connect Non-Factory Duct. |
| | | Utility Set - Spring Vibration Isolators - Bi12 Thru Bi18 / Equivalent Sized Utility Set - Indoor/Outdoor use. |
| 2 | | 1 - Evaporative Cooler Wiring Harness |
| | | |

BLOWER

FAN ACCESSORIES

| FAN | 740 | | EXHAUST | | | SUPF | LY | |
|-----|-----|---------------|-------------------|---------------|-------------------|-------------------|---------------------|---------------|
| NO. | TAG | GREASE CUP | GRAVITY DAMPER | WALL MOUNT | SIDE DISCHARGE | GRAVITY DAMPER | MOTORIZED DAMPER | WALL MOUNT |
| 1 | | YES | | | | | | |
| 2 | | | | | YES | | | |

CURB ASSEMBLIES

| NO. | ON FAN | WEIGHT | ITEM | SIZE |
|-----|--------|--------|------|--------------------------------|
| 1 | #1 | 25 LBS | Curb | 4.000"W x 48.000"L x 10.000"H |
| 2 | #2 | 42 LBS | Curb | 31.000"W x 31.000"L x 20.000"H |
| | #2 | | Rail | 4.000°W x 4.000°L x 36.000°H |

FAN SOUND INFORMATION

| FAN | | | | | | | | | | | | | | |
|------|---------|------|------|-------|------|-------------|----------|----------|----------|----------|----------|----------|----------|----------|
| UNIT | MOTOR | RPM | LWA | SONES | DBA | DISTANCE FT | OCTAVE 1 | OCTAVE 2 | OCTAVE 3 | OCTAVE 4 | OCTAVE 5 | OCTAVE 6 | OCTAVE 7 | OCTAVE 8 |
| NO. | | | | | | | | | | | | | | |
| 1 | Exhaust | 1010 | 75.8 | 12.1 | 64.3 | 5 | 74.7 | 75.3 | 76.1 | 74.4 | 70.5 | 65 | 58.2 | 53.2 |
| 2 | Supply | 850 | 85.2 | 24 | 73.7 | 5 | 91.1 | 90 | 84.3 | 81.8 | 78.1 | 77.5 | 73.7 | 70.6 |

FAN #1 USBi18BD-RM - EXHAUST FAN (6) ISOLATORS = USBI18 THRU 36

09/11/17 17BLD-0344

FEATURES:

- ROOF MOUNTED FANS

- ROOF MOUNTED FAMS
- RESTAURANT MODEL
- UL705
- UL705
- UL706
- HIGH HEAT OPERATION DIRECT DRIVE 350°F (176°C)
- HIGH HEAT OPERATION BELT DRIVE 350°F (176°C) - HEAT SLINGER

- GREASE CLASSIFICATION TESTING
- 2" DRAIN
- MOTOR WEATHER COVER

- FULLY SEALED SCROLL HOUSING

- SCROLL ACCESS DOOR - FLANGE 1 1/4" - 11 THRU 20. - FLANGE 2" - 24 THRU 36.

NORMAL TEMPERATURE TEST BELT DRIVE EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTHOR AIR AT 350°F (1/8°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

fb + h

fonda-bonardi & hohman

REVISIONS

1450 23rd Street Santa Monica, CA 90404 310-453-1134, 310-828-5830 fax info@fbharchitects.com www.fbharchitects.com

CLIENT Tenant Improvement for Joe's Grill 2912 Main Street Santa Monica ,CA 90405





| | CHANGES REVISIONS #1 | | | | | | | |
|--|---------------------------------|--------------------------|----------------------|-------------|-----------|------------|----------------------|------------------------|
| | November 2016 As-Built Drawings | ARB and SCHEMATIC DESIGN | Consruction Drawings | REVISED ARB | BIDDING | PLAN CHECK | PLAN CHECK REVISIONS | CONSTRUCTION DOCUMENTS |
| | November 2016 | 12/29/16 | 1/23/17 | 1/30/2017 | 2/20/2017 | 6/27/2017 | | |

MECHANICAL HOOD DETAILS SHEET 2

DRAWN BY: AHJ-86

SCALE: 3/4" = 1'-0"

DATE: 6/22/2017

MASTER DRAWING

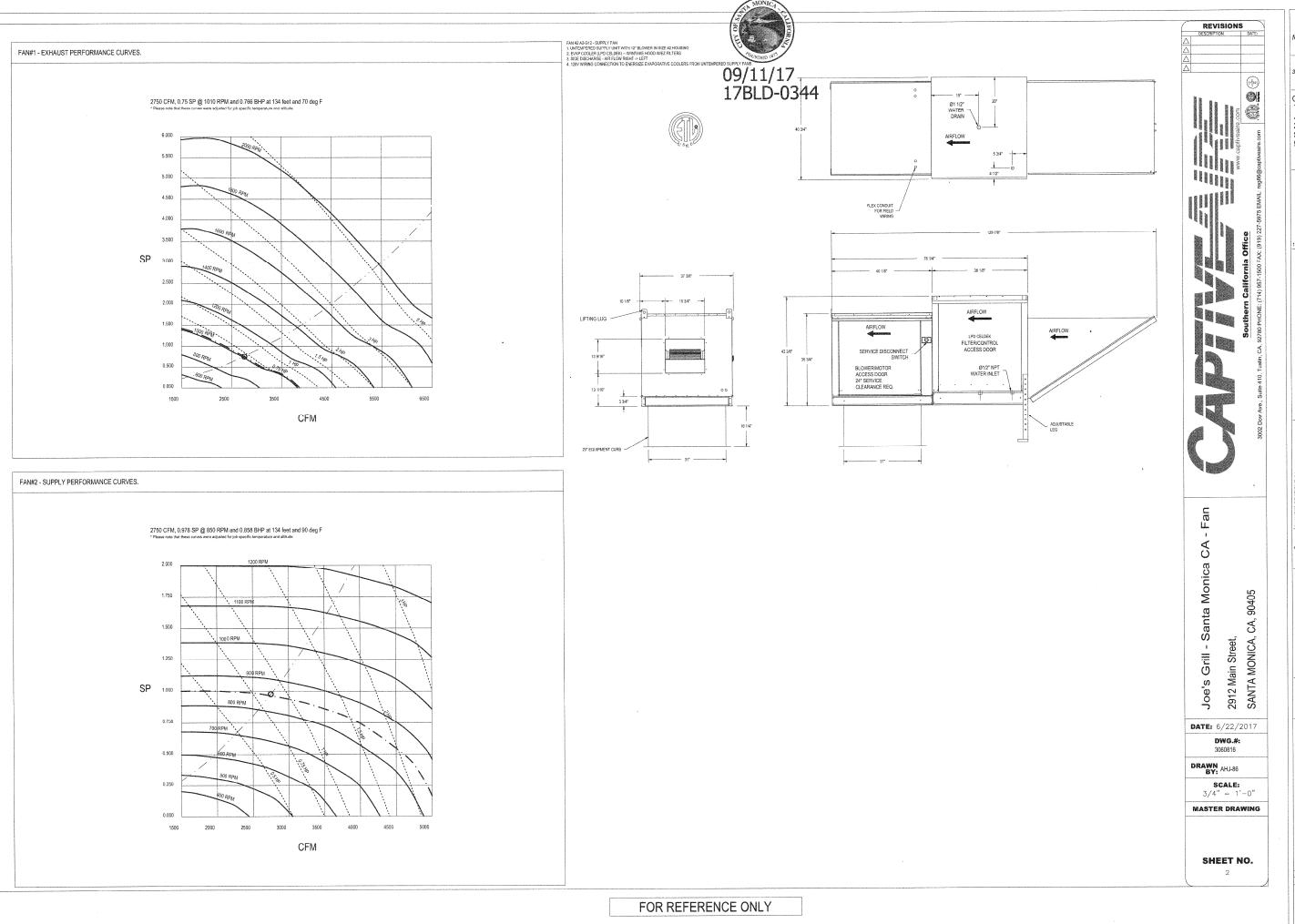
Joe's Grill - Santa Monica CA - Fan

, CA, 90405

2912 Main Street, SANTA MONICA, C

SHEET NO.

Pipersky4.0 CD.phr 5/30/17 M4.3



fb + hfonda-bonardi & hohman

1450 23rd Street Santa Monica, CA 90404 310-453-1134, 310-828-5830 fax info@fthatchilects.com www.fbharchilects.com

CLIENT Tenant Improvement for Joe's Grill 2912 Main Street Santa Monica ,CA 90405



MECHANICAL HOOD DETAILS SHEET 3

Piporeky4.0 CD.pln 5/30/17

| PROCES CEC-NRCC-PR | | | AS AND WORKSHEETS CALIFORNIA ENERGY COMMISSION |
|-----------------------|------------|-----------------------------------|--|
| CERTIFICAT | TE OF COM | PLIANCE | NRCC-PRC-01-E |
| Process Co | mpliance l | orms & Checklists | (Page 1 of 3) |
| Project Name: | | | Date Prepared 6/5/2017 |
| | | PLIANCE DOCUME et is included. | INTS & WORKSHEETS |
| For detailed | instructio | ns on the use of this o | and all Energy Standards compliance documents, refer to the 2016 Nonresidential Manual. |
| Note: The E | nforcemer | t Agency may require | all forms to be incorporated onto the building plans. |
| YES | NO | Doc/Worksheet # | Title |
| Ø | | PRC-01-E (1 of 2) | Covered Process Certificate of Compliance. Required on plans for all submittals with covered processes. |
| Ø | | PRC-01-E (2 of 2) | Certificate of Compliance, Required Acceptance Tests (PRC-02-A to PRC-08-A). Required on plans for all submittals. |
| | Ð | PRC-02-E | Certificate of Compliance for Enclosed Parking Garage Exhaust Fans |
| Ú | | PRC-03-E | Certificate of Compliance for Commercial Kitchens |
| | 12 | PRC-04-E | Certificate of Compliance for Computer Rooms |
| | (2) | PRC-05-E | Certificate of Compliance for Commercial Refrigeration |
| | | PRC-06-E | Certificate of Compliance for ALL Refrigerated Warehouses |
| | 2 | PRC-07-E | Certificate of Compliance for Refrigerated Warehouse ≥ 3,000 ft ² |
| | Ø | PRC-08-E | Certificate of Compliance for Refrigerated Warehouse Where Multiple Spaces that (i) comprise a total of 3,000ft ² or more; and (ii) are collectively served by the same refrigeration system compressor(s) and condenser(s) (central systems). |
| | 2 | PRC-09-E | Certificate of Compliance for Laboratory Exhaust |
| | Ø | PRC-10-E | Certificate of Compliance for Compressed Air Systems |
| | 2 | PRC-11-E | Certificate of Compliance for Process Boilers |
| | | PRC-12-E | Certificate of Compliance for Clevator Lighting and Ventilation Controls |
| | Pl | PRC-13-E | Certificate of Compliance for Escalators and Moving Walkways Speed Controls |

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

09/11/17 CALIFORNIA ENERGY COMMISSION MEC PAGE 1 STATE OF CALIFORNIA COMMERCIAL KITCHEN REQUIREMENTS CEC-NRCC-PRC-03-E (Revised 01/16)

CERTIFICATE OF COMPLIANCE Commercial Kitchen Requirement (Page 1 of 2) 17BLD-0344_{5/2017}

| KITCHEN ROOM NUMBER: | | | Joe's Grill | | | | |
|--|------------------------------|------------------|-------------------------|-------------------------------|--|--|--|
| TOTAL INSTALLED TYPE I and II KITCHEN | HOOD EXHAUST (CFM) |): | 2,500 | | | | |
| TOTAL BYPASS HOOD MUA (CFM): | | | 2,000 | | | | |
| TOTAL TRANSFER AIR AIRFLOW (CFM): | | | 500 | | | | |
| TOTAL MECHANICALLY HEATED OR COO | LED MAKE UP AIR (CFM | A): | 0 | | | | |
| TOTAL AIR NEEDED FOR HEATING OR CO | OLING (CFM): | | 0 | | | | |
| TOTAL EXHAUST AIR WITH DEMAND VE | NTILATION SYSTEMS: | | 0 | | | | |
| Equipment Tags and System Description | 1 | EF-1 | SF-1 | | | | |
| PRESCRIPTIVE MEASURES | T-24 Sections | Reference to the | Requirements in the Cor | ntract Documents ⁹ | | | |
| Bypass Hood Exhaust and MUA | 140.9(b)1A | | | | | | |
| Type I/II Hood Exhaust | 140.9(b)1B, Table 140.9-A | | | | | | |
| Mechanically Heated or Cooled Make Up Air | 140.9(b)2Ai and ii | | | | | | |
| Replacement Air/Transfer Air Exhaust | 140.9(b)2Bi | | | | | | |
| Demand Ventilation Systems | 140.9(b)2Bii | n/a | n/a | | | | |
| Energy Recovery Systems | 140.9(b)2Biii | n/a | n/a | | | | |
| Tempered/Non Mechanical Cooling Air Systems | 140.9(b)2Biv | | | | | | |

CALIFORNIA ENERGY COMMISSION COMMERCIAL KITCHEN REQUIREMENTS CEC-NRCC-PRC-03-E (Revised 01/16)

CERTIFICATE OF COMPLIANCE (Page 2 of 2) Commercial Kitchen Requirements
Project Name: Oate Prepared: 6/5/2017 DOCUMENTATION AUTHOR'S DECLARATION STATEMENT I certify that this Certificate of Compliance documentation is accurate and complete.

 Documentation Author Name:
 Oocumentation Author Signature: Signature Date: 6/5/2017 Company: The American Engineers Address: 18311 South Western Avenue CEA/HERS Certification Identification (If applicable): Phone: 1 (310) 760-6020 City/State/Zip: City of Torrance, California 90248 RESPONSIBLE PERSON'S DECLARATION STATEMENT

Locatify the following under penalty of perjury, under the laws of the State of California:

The information provided on this Certificate of Compliance is true and correct.

In the information provided on this Certificate of Compliance is true and correct.

In the information provided on this Certificate of Compliance is true and correct.

In the information provided on this Certificate of Compliance (responsible designer).

The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations are consistent with the information. Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement apency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement apency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance sequivate to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Krishna C. V. Kumar, P. E. Company: The American Engineers Date Signed: License: M22176

| CA Building Energy Efficiency Standards - 2016 Nonresid | ential Compliance |
|---|-------------------|
|---|-------------------|

CERTIFICATE OF COMPLIANCE

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance

Address: 18311 South Western Avenue City/State/Zip: Torrance, CA 90248

January 2016

NRCC-PRC-01-F (Page 3 of 3)

| STATE OF CALIFORNIA PROCESS COMPLIANCE FORMS AND WORKSHEETS CCS-RRCC-PRC-1E (Revised 64/19) | CALIFORNIA ENERGY COMMISSION |
|---|------------------------------|
| CERTIFICATE OF COMPLIANCE | NRCC-PRC-01-E |
| Process Compliance Forms & Checklists | (Page 2 of 3) |
| Project Name: | Date Prepared: 6/5/2017 |
| | |

B. PROCESS ACCEPTANCE DOCUMENTS

Check box for required compliance documents.

Designer:

This compliance document is to be used by the designer and attached to the plans. Listed below are all the acceptance tests for process systems. The designer is required to check the applicable boxes for all acceptance tests that apply and list all equipment that requires an acceptance test. If all equipment of the same type requires a test, list the equipment description and the number of

Systems.

Installing Contractor:
The contractor who installed the equipment is responsible to either conduct the acceptance test themselves or have a qualified entity run the test for them. If more than one person has responsible, for the acceptance testing, each person shall sign and submit the Certificate of Acceptance applicable to the portion of the construction or installation for which they are responsible.

Enforcement Agency:
Planchest — The NRCC-PRC 01.5 compliance document is not considered a completed document and is not to be accepted by the building department unless the correct baxes are checked.

Inspector - Before occupancy permit is granted all newly installed process systems must be tested to ensure proper operation PRC-01-A PRC-02-A PRC-03-A PRC-04-A PRC-05-A PRC-06-A PRC-07-A PRC-08-A PRC-12-A PRC-13-A Kitchen Fam Word Condenser Controls Control Contro | Equipment | Requiring Testing or Verification | # of Compressed | Garage | Garage | Convertification | Con 0 SF-1 0 0 0 1 5 0

| CA Building Energy Efficiency Standards - 2016 Nonresidential Complia | ınce |
|---|------|

Process Compliance Forms & Checklists

PROCESS COMPLIANCE FORMS AND WORKSHEETS

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

1. I certify that this Certificate of Compliance documentation
Documentation Author Name: Signature Date: 6/5/2017 Company: The American Engineers CEA/HERS Certification (dentification (d applicable) Address: 18311 South Western Avenue Phone: 1 (310) 760-6020 City/State/Zip: City of Torrance, California 90248

RESPONSIBLE PERSON'S DECLARATION STATEMENT

RESPONSBLE PERSON'S DECLARATION STATEMENT

certify the following under penalty of perfury, under the laws of the State of California:

1. The information provided on this Certificate of Compilance is true and correct.

2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compilance (response).

2. I am eligible under Division 3 of the Business and Professions Love to accept responsionity to the dumung designer or system design identified on this Certificate of Compilance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.

4. The building design features or system design features identified on this Certificate of Compilance are consistent with the information provided on other applicable compilance documents, worsheets, calculations, plans and specifications submitted to the enforcement agency for approvide with this building permit application.

5. I will ensure that a completed signed copy of this Certificate of Compilance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all approicable inspections. I understand that a completed signed copy of this Certificate of Compilance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Renes: Krishna C. V. Kumar, P. E.

Date Signed.

Date Signed: Company: The American Engineers License: M22176 Address: 18311 South Western Avenue Phone: 1 (310) 760-6020 Torrance, CA 90248

| A Building Energy Efficiency Stan | dards - 2016 Nonresidential Compliance |
|-----------------------------------|--|

April 2016

fb + h

fonda-bonardi & hohman architects

1450 23rd Street Santa Monica, CA 90404 310-453-1134, 310-828-5830 fax info@tharchitects.com www.fbharchitects.com

CLIENT Tenant Improvement for Joe's Grill 2912 Main Street Santa Monica .CA 90405





| | CHANGES REVISIONS #1 | | | | | | | |
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| | November 2016 As-Built Drawings | 12/29/16 | 1/23/17 | 1/30/2017 | 2/20/2017 | 6/27/2017 | | |

MECHANICAL TITLE 24

M5.

GENERAL NOTES ALL WORK SHALL CON

- A. ALL WORK SHALL CONFORM TO THE 2016 CPC.
- 8x11 PROJECT MANUALS, INCLUDING, EQUIPMENT AND FIXTURES AND BUILDING STANDARDS SHALL BE A PART OF THIS WORK.
- C. ALL SYMBOLS SHOWN ON THE SYMBOL LIST ARE NOT NECESSARILY USED IN THIS PROJECT.
- D. WHERE THERE IS A DISCREPANCY BETWEEN THE DRAWINGS AND THE PROJECT MANUAL BUILDING STANDARDS OR SPECIFICATIONS, NOTIFY THE ARCHITECT PRIOR TP PROCEEDING WITH
- THE WORK OF THIS PROJECT INVOLVES ALTERATION OF THE BASE BUILDING PLUMBING SYSTEMS TO ACHIEVE THE ARRANGEMENT INDICATED ON THE DRAWINGS. THE CONTRACTOR SHALL VISIT THE JOB SITE TO DETERMINE THE EXTENT OF WORK REQUIRED BY THE CONSTRUCTION ACTIVITIES. THE ARCHITECTURAL DRAWINGS SHOW THE CHANGES TO BE MADE, THE CONTRACTOR SHALL REVISE, REARRANGE, REROUTE OR REMOVE EXISTING PLUMBING COMPONENTS AS REQUIRED TO ACCOMMODATE THE CHANGES.
- THESE DRAWINGS INDICATE THE DESIGN INTENT REQUIREMENTS FOR THE PLUMBING SYSTEMS, AND EQUIPMENT. DUE TO STRUCTURAL CONDITIONS, ELECTRICAL WIRING OR PIPING INTERFERENCE, OR FOR OTHER REASONS, THE CONTRACTOR MAY DESIRE TO INSTALL THE WORK IN A MANNER DIFFERENT FROM THAT SHOWN TO ACCOMMODATE EXISTING FIELD CONDITIONS.
- G. DURING BID, THE CONTRACTOR SHALL EXAMINE THE COMPLETE SET OF DRAWINGS FOR ALL TRADES, AS ISSUED BY THE ARCHITECT AND REVIEW DIMENSIONS SPACE REQUIREMENTS AND POINT OF CONNECTIONS TO ALL EQUIPMENT. MAKE ANY MINOR ADJUSTMENTS NECESSARY TO AVOID CONFLICTS WITH THE BUILDING STRUCTURE AND THE WORK OF OTHER TRADES.
- H. UNLESS INSTRUCTED OTHERWISE, THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, LICENSES, AND FEES REQUIRED FOR INSTALLATION OF THE PLUMBING WORK, INCLUDING THE LOCAL DEPARTMENT OF BUILDING AND SAFETY, DEPARTMENT OF WATER AND POWER, GAS CO. AND ALL OTHER AGENCIES HAVING JURISDICTION OVER SERVICES TO THIS BUILDING, FURNISH FINAL CERTIFICATE OF INSPECTION OR WRITTEN EVIDENCE OF ACCEPTANCE BY INSPECTION AUTHORITIES FOR ALL WORK INSTALLED.
- SEE KITCHEN CONSULTANT DRAWINGS FOR EXTENT OF TENANT IMPROVEMENT WORK, AND EXACT LOCATION OF FIXTURES, EQUIPMENT, DEVICES, ETC.
- CONTRACTOR SHALL COORDINATE WITH ALL TRADES TO ENSURE AN UNDERSTANDING OF THE COMPLETE SCOPE OF PROJECT PRIOR TO START OF WORK.
- THE ALTERATION OF THE BASE BUILDING PLUMBING SYSTEMS IS A COMPLEX WORK IN NATURE WHICH WILL REQUIRE ACCURATE PLANNING, CAREFUL PREPARATION AND EXECUTION, ATTENTION TO DETAIL AND CLOSE SUPERVISION BY THE CONTRACTOR. THE CONTRACTOR WILL BE REQUIRED TO DO HIS WORK IN FULL COOPERATION WITH THE OTHER CONSTRUCTION TRADES.
- BEFORE SUBMITTING PROPOSALS FOR THIS WORK, EACH BIDDER SHALL BECOME FAMILIAR WITH DRAWINGS AND SHALL HAVE EXAMINED THE PREMISES AND BE AWARE OF ALL EXISTING CONDITIONS UNDER WHICH HE SHALL BE OBLIGATED TO OPERATE IN PERFORMING HIS CONTRACT. THE CONTRACTOR SHALL NOT BE ENTITLED TO ANY EXTRA COMPENSATION FOR FAILURE TO ALLOW FOR ALL EXISTING CONDITIONS. SUBMITTING OF A BID OR PROPOSAL WILL BE CONSIDERED EVIDENCE OF THE FACT THAT CONTRACTOR IS FULLY AWARE OF THESE CONDITIONS AND IS ABLE TO COMPLETE ALL WORK REQUIRED BY THE DRAWINGS.
- M. IF ANY EQUIPMENT SUBMITTED BY THE CONTRACTOR IS DIFFERENT FROM THAT SPECIFIED, OR REQUIRES CHANGES IN MATERIAL OR LABOR FROM THAT REQUIRED IN THE CONTRACT DOCUMENTS AFFECTING HIS AND/OR OTHER TRADES, SUCH CHANGES SHALL BE SUBMITTED AS SHOP DRAWINGS. SUBMITTAL SHALL INDICATE CREDIT DUE TO OWNER, IF ANY, BECAUSE OF THE CHANGES CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR PAYMENT OF ALL CHARGES RESULTING FROM ADDITIONS OR CHANGES IN THE WORK OF OTHER TRADES NECESSARY TO ACCOMMODATE THE REQUESTED MODIFICATION. ALL CHANGES SHALL BE SHOWN ON RECORD AS-BUILT DRAWINGS.
- N. SUBMIT SHOP DRAWINGS AND PRODUCT DATA ACCORDING TO SPECIFICATIONS.
- O. CROSS CONNECTION PROTECTION SHALL BE PROVIDED AT ALL POTABLE WATER SUPPLIED
- EACH FAUCET SHALL NOT EXCEED THE MAXIMUM WATER FLOW REQUIRED BY GOVERNING CODES.
- Q. BUILDING DRAIN AND VENT PIPING MATERIALS SHALL COMPLY WITH SECTIONS 701.0 AND 903.0 OF
- R. ALL SANITARY SYSTEM MATERIALS SHALL BE LISTED BY AN APPROVED LISTING AGENCY.
- S. INSTALLATION OF SOIL OR DRAIN PIPES IN FOOD HANGING ESTABLISHMENTS WILL COMPLY WITH
- T. LAVATORY FAUCETS IN RESTROOMS SHALL BE THE SELF CLOSING TYPE.
- U. SERVICE WATER HEATING SYSTEMS AND EQUIPMENT SHALL COMPLY WITH ENERGY EFFICIENCY
- WATER HEATER SHALL BE ANCHORED OR STRAPPED TO RESIST HORIZONTAL DISPLACEMENT DUE TO EARTHQUAKE MOTION PER SECTION 508.2 CPC

IG NOTES

- QUACY OF ALL UTILITIES, INCLUDING METER LOCATIONS AND VERIFY SIZE DEPTH SEWER INVERTS, BEFORS ARTING WORK
 - ALL PIPING IN FINISH DATA BEST AND BY GOOCAL OF WHERE POSSIBLE, AND EXPOSED PIPING SHALL BE RUN AS HIGH AS POSSIBLE AND HIGH AS VALLS!
- 4. ALL LINES TO BE AWAY FROM BEARING FOOTINGS, OR AS DIRECTED BY STRUCTURAL ENGINEER.
- INSTALL BACKFLOW PROTETION DEVICES AS REQUIRED BY LOCAL CODES.
- INSTALL PRESSURE REDUCING VALVE(S) WITH SHUT-OFF WHERE CITY PRESSURE EXCEEDS 80 PSI.
- ALL APPLIANCE AND PLUMBING VENTS SHALL BE AT LEAST TEN (10) FEET IN HORIZONTAL DIRECTION OR THREE (3) FEET ABOVE THE OUTSIDE AIR INTAKES FOR HVAC UNITS.
- SEWER TO BE RUN @ 1/4" SLOPE. (2014 LA PLUMBING CODE) LARGER LINE MAY BE INSTALLED AT A SLOPE OF NOT LESS THAN 1% WHEN FIRST APPROVED BY THE BUILDING DEPARTMENT, MEETING FU RATING OF THE LA PLUMBING CODE.
- ALL REQUIRED CLEANOUTS SHALL BE INSTALLED AS PER 2016 CPC.
- 10. ALL EXTERIOR HOSE BIBBS SHALL BE PROVIDED WITH A NON-REMOVABLE BACKFLOW PREVENTION DEVICES AND VACUUM BREAKERS
- 11. PROVIDE SHUT-OFF VALVES FOR ALL PLUMBING FIXTURES AND GROUPS
- 12. PROVIDE ACCESS PANELS FOR ALL GROUPS OF TOILET FIXTURES.
- 13. PROVIDE TRAP PRIMERS FOR FLOOR DRAINS.
- 14 USE DIEJECTRIC UNIONS TO CONNECT STEEL AND COOPER OR BRASS PIPES & FIXTURES.
- 15. ALL PLUMBING FIXTURES, PIPING AND MATERIALS SHALL BE LISTED OR LABELED AND INSTALLED AS PER A RECOGNIZED APPROVAL AGENCY
- 16. SUPPORT HORIZONTAL CAST IRON VENT PIPING AT EVERY OTHER JOINT UNLESS OVER 4 FEET, THEN SUPPORT EVERY JOINT. SUPPORT ADJACENT TO JOINT NOT TO EXCEED 18" AND AT EACH HORIZONTAL BRANCH CONNECTION. PROVIDE HORIZONTAL BRACING EVERY 40 FEET. HANGERS SHALL NOT BE PLACED ON THE COUPLINGS.
- 17. DO NOT BORE HOLES IN STUDS TO RUN HORIZONTAL VENTS. INSTALL VENTS VERTICALLY UNTIL 6" ABOVE THE TOP PLATES OF WALLS
- 18. FACH VENT SHALL RISE VERTICALLY TO NOT LESS THAN SIX (6) INCHES IN HEIGHT ABOVE THE FLOOD LEVEL RIM OF THE FIXTURE BEFORE BEING CONNECTED INTO ANY OTHER VENT
- 19 VENTS SHALL EXTEND THROUGH ITS FLASHING AND SHALL TERMINATE VERTICALLY NOT LESS THAN SIX INCHES ABOVE THE ROOF NOR LESS THAN ONE FOOT FROM ANY VERTICAL SURFACE
- EACH PLUMBING VENT SHALL NOT TERMINATE LESS THAN TEN (10) FEET FROM, OR AT LEAST THREE (3) FEET ABOVE ANY WINDOW, DOOR, OPENING, AIR INTAKE OR VENT SHAFT OR NOT LESS THAN 3 FEET IN EVERY DIRECTION FROM A LOT LINE, ALLEY & STREET EXCEPTED.
- 21. NEW OR REPAIRED POTABLE WATER SYSTEMS SHALL BE DISINFECTED PRIOR TO USE ACCORDING TO THE METHOD SET IN SECTION 609.9 OF THE PLUMBING CODE.

ENERGY COMMISSION NOTES

- DOMESTIC WATER HEATERS SHALL BE CERTIFIED AND LISTED BY THE CALIFORNIA ENERGY
- ALL HOT WATER SUPPLY AND RETURN PIPING SHALL BE INSULATED PER ENERGY CODE. INSULATE ALL FITTINGS, VALVES, STRAINERS, ETC., BY EITHER PREFABRICATION OR BY FABRICATING FITTINGS FROM METERED SEGMENTS OF PIPE INSULATION TO AN EQUAL THICKNESS OF ADJOINING
- SERVICE WATER HEATING SYSTEM SHALL BE EQUIPPED WITH AUTOMATIC TEMPERATURE CONTROLS CAPABLE OF ADJUSTMENT FROM THE LOWEST TO THE HIGHEST ACCEPTABLE TEMPERATURE SETTING.
- WHEN A CIRCULATING HOT WATER SYSTEM IS INSTALLED, IT SHALL HAVE A CONTROL CAPABLE OF AUTOMATICALLY TURNING THE CIRCULATING PUMPS WHEN HOT WATER IS NOT REQUIRED (INDICATED TIME CLOCK)
- ALL PLUMBING FIXTURES SHALL BE LOW FLOW TYPE AND APPROVED BY THE ENERGY CONSERVATION STANDARDS

SYMBOLS AND LEGEND

| SYMBOLS | ABBREV. | DESCRIPTION |
|--|------------------|---|
| | W W V | SEWER WASTE ABOVE SEWER WASTE BELOW VENT LINE |
| | CW | COLD WATER |
| | HW | HOT WATER |
| | HWR GW | HOT WATER RETURN GREASE WASTE |
| | G | GAS |
| CD | CD | CONDENSATE DRAIN |
| | SOL CWV DS | SOIL ,WASTE ABOVE FLOOR OR GRADE COMBINATION WASTE & VENT DOWNSPOUT NEW TO EXISTING CONNECTION |
| | FS | FLOOR SINK (FULLY OPEN) |
| 四 | FS | FLOOR SINK (HALF GRATE) |
| · H | wco | WALL CLEAN OUT |
| 0 | co | CLEAN OUT TO GRADE |
| | FD | FLOOR DRAIN |
| 0 | POC | POINT OF CONNECTION |
| ✓TP \ | TP | TRAP PRIMER |
| AP ACCESS PANEL ASR AUTO. FIRE SPRINKLER RIS BFP BACKFLOW PREVENTER BC BALANCING COCK CB CATCH BASIN | SER | RIC ROUGH-IN & CONNECT RD ROOF DRAIN SOC SHUT OFF COCK SOV SHUT OFF VALVE NA NOT APPLICABLE NA OFF NA CONTROL |

NOTES TO CONTRACTOR

COYB CLEANOUT IN YARD BOX

INVERT ELEVATION MANHOLE

HEADER

HDR

PLUMBING CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS BEFORE START OF

ORD

(N) (E)

NOT IN CONTRACT

NEW

EXISTING

OVERFLOW ROOF DRAIN

PRESSURE REDUCING VALVE

- CONTRACTORS TO PREPARE SHOP DRAWINGS AFTER CONDUCTING SITE SURVEY. THE SHOP DRAWINGS MUST PROVIDE THE NECESSARY INSTALLATIONS, CUSTOMIZED ACCORDING TO ACTUAL SITE CONDITIONS, PROVIDE A COPY TO THE CLIENT, ARCHITECT & ENGINEERS A WEEK PRIOR TO MOBILIZATION.
- CONTRACTOR TO PREPARE TWO COPIES OF RED LINE AS-BUILT DRAWINGS. USE THE SHOP DRAWINGS AS THE BASE PLAN, RED PENCIL (NOT PEN) TO UPDATE THE SAID AS-BUILT EVERYDAY. THE FIRST COPY IS FOR TECHNICIAN REFERENCE WHILE WORKING. THE SECOND COPY SHOULD BE KEPT CLEAN, NEAT, & LEGIBLE. THIS SHALL BE USE FOR INSPECTION, MEETING, RFI PREPARATION, AND OTHER APPLICATIONS WHEREON A CLEAN, NEAT, & LEGIBLE COPY IS NECESSARY. PRIOR TO RELEASE OF FINAL PAYMENT, THE SECOND COPY MUST BE CERTIFIED BY THE CONTRACTOR'S LICENSEE AS COMPLETE & CORRECT. SCAN AND PROVIDE ELECTRONIC COPY TO THE CLIENT, ARCHITECT, & ENGINEERS. THE HARD COPY MUST BE KEPT BY THE CONTRACTOR DURING WARRANTY PERIOD AND MUST BE SUBMITTED TO STORE MANAGER ON THE LAST DAY OF WARRANTY.
- SHOULD THE CONTRACTOR BE UNABLE TO FOLLOW PLANS AND THERE IS A NEED TO DEVIATE FROM PLANS SIGNIFICANTLY, THE GENERAL CONTRACTOR MUST, USING ITS OFFICIAL FORM, SEND REQUEST FOR INFORMATION (RFI) OR REQUEST FOR CLEARANCE TO THE ARCHITECT OF RECORD & COPY FURNISH THE ENGINEERS. THE RFI MUST BE CONCISE & SUPPORTED W/ SKETCH, DRAWINGS, CUT SHEET AND/OR OTHER MATERIALS THAT WILL HELP THE ENGINEERS RESPOND PRECISELY AND QUICKLY. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE AND BEAR THE COSTS OF ANY ADDITIONAL CHARGES THAT MAY RESULT FROM PLAN DEVIATIONS WITHOUT AUTHORIZATION FROM OWNER OR ENGINEER
- PLANS ARE SUBJECT TO CHANGE PENDING ALL REQUIRED CITY/MUNICIPALITY APPROVALS & PERMITS

| | LOMBINO DI GRANINO GILLET INTE | J 11117 (|
|--------|---|---------------|
| SHEET# | SHEET TITLE | REMARKS/ISSUE |
| P0.1 | PLUMBING NOTES SYMBOLS & SHEET LIST | PLAN CHECK |
| P0.2 | PLUMBING SCHEDULES & CALCULATIONS | PLAN CHECK |
| P1.1 | PLUMBING SITE PLAN | PLAN CHECK |
| P2.1 | PLUMBING FLOOR PLANS | PLAN CHECK |
| P4.1 | PLUMBING DETAILS | PLAN CHECK |
| P5.1 | PLUMBING RISER DIAGRAM (WATER-WASTE & VENT) | PLAN CHECK |
| | | |

PLUMBING DRAWING SHEET INDEX

DRAWN BY CHECK BY: STAMPED/SIGNED: KK

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CLIENT Tenant Improvement for

Joe's Grill 2912 Main Street Santa Monica .CA 90405





PLUMBING NOTES SYMBOLS & SHEET LIST

WATER CALCULATIONS PER TABLES 610.4 TOTAL FIXTURE COUNT: 21 AVAILABLE WATER PRESSURE: HIGH- 65 PSI; LOW - 55 PS (PER SM WATER DEPT)I BUILDING STATIC PRESSURE HEIGHT 12. HEIGHT X 0.434 = 5.2 PSI RESIDUAL PRESSURE = 49.8 PSI DEVELOPED LENGTH = 100 FT X 1.2 = 120 FEET (MOST REMOTE COLD OR HOT WATER OUTLET FROM WATER METER) WATER METER SIZE (EXISTING) = 3/4" WATER SERVICE SIZE (NEW) = 1" FIXTURE UNITS PER PIPE SIZE (PRESSURE RANGE 46-60 PSI): 1/2" = 4 3/4" = 14

| HOT | WATER | HEATER | SIZING |
|-----|-------|---------------|--------|
|-----|-------|---------------|--------|

A. GPH INFORMATION : -

1" = 28

2 HANDSINK /LAV X 5 GPH = 10 GPH

3 COMPARTMENT POT SINK = 45 GPH

MOP SINK = 15 GPH PREP SINK = 5 GPH

TOTAL = 75 GPH

B. BTUH INPUT = 75 GPH X 50°F X 8.33 = 32,539.06 BTUH
.96

C. SELECTED: 50 GALLON STORAGE TANK WATER HEATER 100,000 BTUH

| | V V <i>F</i> - | TOTECT | MILKI | IXTURE UI | WI 1 O | | 12.4 |
|----------------------------|----------------|-------------------|-------|------------------------|--------|------------------------|------|
| | | WASTE | | | W | ATER | 001 |
| FIXTURE | QUANTITY | FIXTURES UNITS | TOTAL | FIXTURES UNITS (CW) | TOTAL | FIXTURES UNITS (HW) | 17E |
| 3 COMP. KITCHEN SINK | 1 | 3 | 3 | 4 | 1 | 1 | 4 |
| PREP SINK | 1 | - | - | 2 | 2 | 2 | 2 |
| MOP SINK | 1 | 3 | 3 | 3 | 3 | 3 | 3 |
| WATER CLOSET | 1 | 6 | 6 | 3.5 | 3.5 | - | - |
| LAVATORY | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ICE MACHINE | 1 | - | - | 1 | 1 | - | - |
| FLOOR DRAIN | 3 | 2 | 6 | - | - | - | - |
| FLOOR SINK | 2 | 2 | 4 | - | - | - | - |
| HAND SINK | 1 | 2 | 2 | 2 | 2 | 2 | 2 |
| SODA DISPENSER | 1 | | - | 1 | 1 | - | - |
| HOSE BIBB | 2 | - | - | 2.5 + 1 | 3.5 | - | - |
| EVAPORATIVE COOLER(MAU) | 1 | - | - | 1 | | - | - |
| TOTAL | | | 25 | | 22 | | 12 |
| SEWER LINE - 3" (EXISTING | G) | | L | | | | 1 |

| | PIPE MATE | RIAL SCHED | ULE |
|---------------------------------------|-------------------------------|-------------------------------|-------------------------|
| SERVICE | PIPE | FITTINGS | LOCATION |
| WASTE & VENT | CAST IRON NO HUB | CAST IRON NO HUB | ABOVE GRADE BELOW GRADE |
| STORM DRAIN | CAST IRON NO HUB | CAST IRON NO HUB | ABOVE GRADE BELOW GRADE |
| HOT AND COLD WATER | COPPER TYPE "L" HARD DRAWN | WROUGHT COPPER | ABOVE GRADE |
| COLD WATER | COPPER TYPE "L" HARD DRAWN | WROUGHT COPPER | BELOW GRADE |
| INDIRECT WASTE CONDENSATE DRAIN | COPPER TYPE "M" HARD DRAWN | WROUGHT COPPER | ABOVE GRADE |
| GAS | BLACK STEEL SCHEDULE 40 | BLACK STEEL MALLEABLE IRON | ABOVE GRADE |

|) | | PLU | MBING | FIXT | URE | SCHE | EDULE |
|---------|--------------------|-------|--------|--------|------|--|---|
| 7 ITEM | DESCRIPTION | WASTE | TRAP | VT | cw | HW | SPECIFICATIONS & REMARKS |
| 344 | 3-COMPARTMENT SINK | 2" | 2" | 1-1/2" | 1/2" | 1/2" | SEE KITCHEN DRAWINGS FOR SPECS DIRECT DRAINAGE CONNECTION PER CPC 704.3 |
| PS 1 | PREP SINK | - | | - | 1/2" | 1/2" | SEE KITCHEN DRAWINGS FOR SPECS , INDIRECT DRAIN TO FLOOR SINK |
| MS 1 | MOP SINK | 3" | 3" | 2" | 1/2" | 1/2" | SEE KITCHEN DRAWINGS FOR SPECS PROVIDE VACUUM/BREAKER/BACKFLOW PREVENTER FOR FAUCET |
| HS 1 | HAND SINK | 2" | 1-1/2" | 1-1/2" | 1/2" | 1/2" | SEE KITCHEN DRAWINGS FOR SPECS PROVIDE ASSE 1070 COMPLIANT TEMP. MIXING VALVE (LEONARD 270-LF) TO LIMIT TEMP TO 110°F |
| IM 1 | ICE MAKER | - | - | - | 1/2" | | SEE KITCHEN DRAWINGS FOR SPECS. INDIRECT WASTE TO FLOOR SINK. ENERGY STAR RATED PROVIDE WATTS SD-3 BFP AT WATER INLET.PROVIDE FILTERED WATER. |
| SD 1 | SODA DISPENSER | - | - | - | 1/2" | | SEE KITCHEN DRAWINGS FOR SPECS , INDIRECT DRAIN TO FLOOR SINK. PROVIDE BACKFLOW PREVENTER AT WATER INLET. PROVIDE FILTERED WATER. |
| | LAVATORY | 2" | 1-1/2" | 1-1/2" | 1/2" | 1/2" | AMERICAN STANDARD MURRO WALL MOUNT SINK WITH SELECTRONIC METERING FAUCET (MODEL 6055.104) 0.044 GPC AT 7.5 SECS CYCLE. PROVIDE THERMOSTATIC MIXING VALVE ASSE 1070 CONFORMING TO LIMIT TEMP TO 110° (LEONARD 270-LF). ADA COMPLIANT |
| (WC) | WATER CLOSET | 3" | INT | 2" | 3/4" | - | AMERICAN STANDARD CADET FLOWISE, ELONGATED BOWL, PRESSURE ASSISTED, 1.1 GPF.PROVIDE OPEN FRONT WC SEAT.ADA COMPLIANT |
| WH 1 | WATER HEATER (GAS) | - | - | | 1" | 1" | AO SMITH MODEL# BTX-100, 50 GALLON STORAGE TANK WATER HEATER 100,000 BTUH.PROVIDE EXPANSION TANK, RECIRC. PUMP, & TEMPERATURE CONTROL MODULATION. FLOOR MOUNTED |
| WF 1 | WATER FILTER | | - | - | 1/2" | - | SEE KITCHEN DRAWINGS FOR SPECS. SERVES ICE MACHINE & SODA DISPENSER. INDIRECT WASTE TO FLOOR SINK. PROVIDE BACKFLOW PREVENTER AT WATER INLET. |
| HB 1 | HOSE BIBB | - | - | - | 1/2* | The state of the s | ACORN - LOCKABLE HOSE BIBB |
| GT 1 | GREASE TRAP | 2" | INT. | 2" | - | - | WATTS WD-35, 70 LBS GREASE CAPACITY, 35 GPM FLOW RATE |



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002-09 JOE'S GRILL



| CHANGES REVISIONS #1 | | | | | | | |
|---------------------------------|--------------------------|----------------------|-------------|-----------|------------|----------------------|--|
| As-Built Drawings | ARB and SCHEMATIC DESIGN | Consruction Drawings | REVISED ARB | BIDDING | PLAN CHECK | PLAN CHECK REVISIONS | CONSTRUCTION DOCUMENTS |
| November 2016 As-Built Drawings | 12/29/16 | 1/23/17 | 1/30/2017 | 2/20/2017 | 3/30/17 | 5/11/17 | AND THE PROPERTY AND TH |

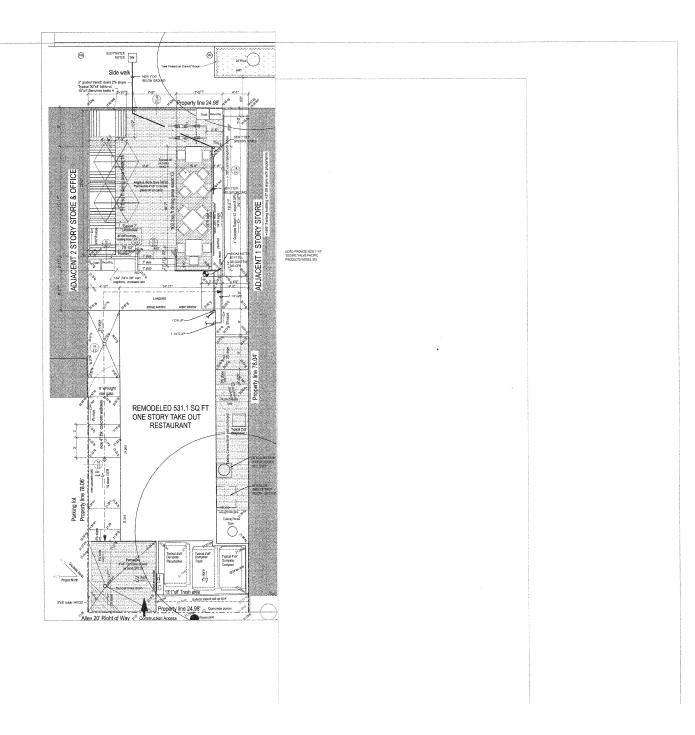
PLUMBING SCHEDULES & CALCULATIONS

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P0.2

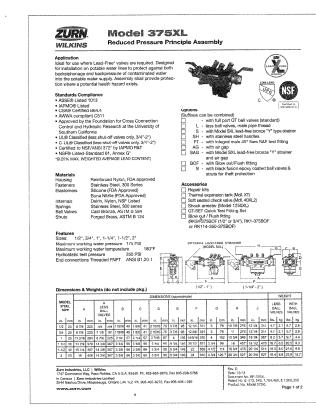


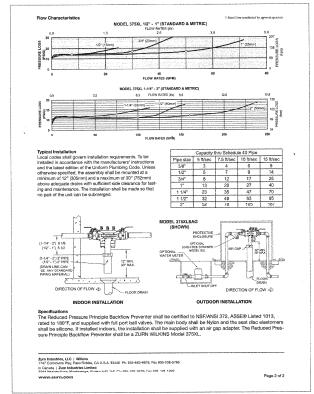
MAIN ST.



GENERAL NOTES:

- CONTRACTOR TO VERIFY EXACT LOCATION, SIZE, DIRECTION AND DEPTH OF EXISTING UTILITIES PRIOR TO BID & COMMENCING WORK.
- WHERE CONDITIONS ARE SHOWN OR NOTED AS EXISTING, THEY ARE BASED ON THE BEST INFORMATION CURRENTLY AVAILABLE AT THE TIME OF PREPARATION OF THESE DRAWINGS. NO WARRANTY IS IMPLIED AS TO THE ACCURACY OF SAME HOWEVER AND CONTRACTOR. IS TO FIELD VERIFY ALL CONDITIONS. SHOULD FIELD CONDITIONS DIFFER FROM THOSE SHOWN HEREIN THEY SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO PROCEDING WITH





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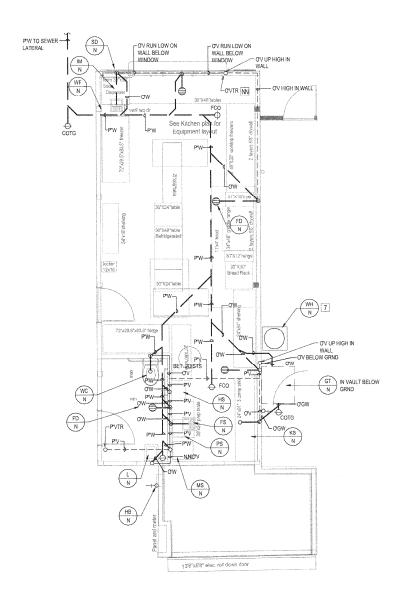
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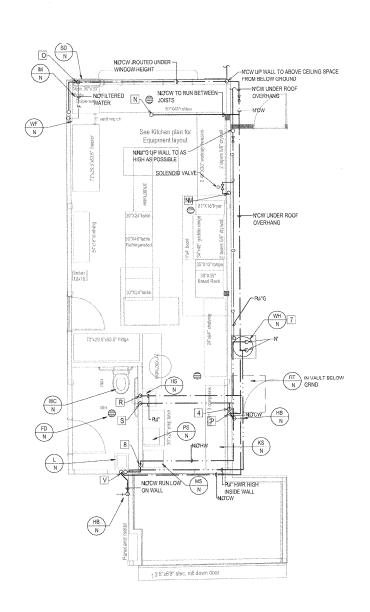


PLUMBING SITE PLAN

1







GENERAL NOTESW

- N. CONTRACTOR TO VERIFY EXACT LOCATION SIZE AND DEPTH OF EXISTING UTILITIES PRIOR TO COMMENCING WORK.
- Q. WHERE CONDITIONS ARE SHOWN OR NOTED AS EXISTING! THEY ARE BASED ON THE BEST INFORMATION CURRENTLY AVAILABLE AT THE TIME OF PREPARATION OF THESE DRAWINGS. NO WARRANTY IS IMPLIED AS TO THE ACCURACY OF SAME HOWEVER AND CONTRACTOR IS TO FIELD VERIFY ALL CONDITIONS. SHOULD FIELD CONDITIONS DIFFER FROM THOSE SHOWN HEREIN THEY SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO PROCEDING WITH

PLUMBING NOTESW

- FACILITY IS MOPPED REGULARLY SO NO NEED FOR TRAP PRIMERS FOR FLOOR DRAINS. PROVIDE IF REQUIRED BY CITY.
 ALL WASTE LINES TO BE SLOPED AT CB.

KEYNOTES

- NOOW UP TO MAKE UP AIR UNIT ON ROOF, COORDINATE WITH MECHANICAL CONTRACTOR FOR EXACT LOCATION IN FIELD.
- O NOTFILTERED WATER TO ICE MACHINEEMJN, AND SODA DISPENSEREDJN)
- PA*CW MANIFOLD DOWN TO OFAUCETS OF KITCHEN POT SINK EKS.NJENO/CW PER FAUCET)
 AND HOSE BIBBEHB.NJENO/CW), VERIFY WITH ARCHITECT WHETHER TO CONCEAL PIPING TO
 HOSE BIBB IN WALL OR EXPOSED.
- 4 PL4"HW MANIFOLD DOWN TO OFAUCETS OF KITCHEN POT SINK EKS.NJBNO"HW PER FAUCET)
- R P44"CW MANIFOLD DOWN TO HAND SINKEHS.MJENO"CW)I WATER CLOSETEWC.JNJEP14"CW)IPREP SINK FAUCETEPS.NIENO'CW) AND MOP SINK EMS.NIENO'CW).
- S PL4"HW MANIFOLD DOWN TO HAND SINKEHS.NJENO"HW) AND PREP SINK FAUCETEPS.NJENO"HW)
- [7] INSTALL WATER HEATER INSIDE EXTERIOR CLOSET AS PER MANUFACTURERS INSTRUCTIONS.
- 8 P4*HW MANIFOLD DOWN MOP SINKEMS.MJENO'HW) AND LAVATORY FAUCET EL.MJENO'HW)
- Y P4°CW MANIFOLD DOWN TO LAVATORY FAUCET 81.NENOCW). AND HOSE BIBBEHB.NENOCW). VERIFY WITH ARCHITECT WHETHER TO CONCEAL PIPING TO HOSE BIBB IN WALL OR
- $\boxed{\text{MM}}$ NM4"G MANIFOLD DOWN WALL TO P GAS OUTLETS JFRYER EPL4"G) GRIDDLE RANGERNG) AND OBURNER RANGE ENLOG
- [M] EXTEND AND RELOCATE TO KEEP NMFT CLEARANCE FROM MECHANICAL AIR INTAKE AND PROPERTY LINE. COORDINATE WITH MECHANICAL PLANS AND ARCHITECT PRIOR TO

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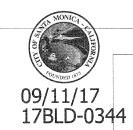




PLUMBING FLOOR PLANS

PO.N

SCALEVNI4" = NOM N





WD Series Tag:

PDI Certified Grease Interceptor

SPECIFICATION: Watts Drainage WD Scries PDI Certified recessed or floor mounted spoxy coated steel grease interceptor with gasketed epoxy coated steel skid-proof cover secured with hex head center bolt(s), removable baffle assembly, deep seal trap with cleanout, external cast iron flow control fitting, and no hub (standard) connections.







| Suffix | Description | 0.00 |
|--------|-------------|------|
| 4 | 4 GPM | |
| 7 | 7 GPM | |
| 10 | 10 GPM | |
| 15 | 15 GPM | |
| 20 | 20 GPM | |
| 25 | 25 GPM | |
| 35 | 35 GPM | |
| 50 | 50 GPM | |

| - | D (Length) x E (Width |) | | Su -{ |
|--------------------------------------|-----------------------|---|--------------|----------|
| Flow Restrictor w/Vent Connection | | | C C Outlet F | -E -F |
| | | | 1 | |

| -В | Sediment Bucket |
|------|--|
| -Ε | Extension |
| FC | Flange 8. Clamp Device |
| -HD | Heavy Duty (10,000 lb.) Traffic Cover |
| 0 | Inlet & Outlet other than Standard Size |
| -SS | Stainless Steel |
| -THD | Threaded Connections |
| -US | Buy American Compliant |

| Interceptor | Flow | Grease | Α | В | C | D | E | F |
|-------------------|-------------|-----------------|-------------------|-------------------|------------------|--------------|--------------|--------------|
| Catalog Number | Rate GPM | Capacity Lbs | Inlet & Outlet | Base to Center | Top to Center | Length | Width | Height |
| WD-4 | 4 | 8 | 2"(51) | 7-3/4"(197) | 3-1/4"(83) | 16"(406) | 10"(254) | 11"(279) |
| WD-7 | 7 | 14 | 2"(51) | 8-1/2"(216) | 3-1/2"(89) | 18"(457) | 13"(330) | 12"(305) |
| WD-10 | 10 | 20 | 2"(51) | 8-1/2"(216) | 3-1/2"(89) | 21-3/4"(552) | 14"(356) | 12"(305) |
| WD-15 | 15 | 30 | 2"(51) | 10-1/2"(267) | 3-1/2"(89) | 22"(559) | 15"(381) | 14"(356) |
| WD-20 | 20 | 40 | 3"(76) | 11-1/2"(292) | 3-1/2"(89) | 24"(610) | 15-3/4"(400) | 15"(381) |
| WD-25 | 25 | 50 | 3"(76) | 12"(305) | 4-1/2"(114) | 26"(660) | 16-1/2"(419) | 16-1/2"(419) |
| WD-35 | 35 | 70 | 3"(76) | 14"(356) | 5"(127) | 30"(762) | 18"(457) | 19"(483) |
| WD-50 | 50 | 100 | 4"(102) | 16"(406) | 5-1/2"(140) | 32"(813) | 22"(559) | 21-1/2"(546) |

WWATTS*

ES-WD-WD SERIES USA 1304

USA: 100 Watts Road, Spindale, NC, 28160-2298; TFI: 828-288-2179 TOLL-FREE: 1-800-338-2581 www.watts.com

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| MANAGEMENT OF THE PROPERTY OF THE PARTY OF T | | |
|--|--------------------------|--------------------------|
| November 2016 | As-Built Drawings | CHANGES REVISIONS #1 |
| 12/29/16 | ARB and SCHEMATIC DESIGN | |
| 1/23/17 | Consruction Drawings | |
| 1/30/2017 | REVISED ARB | |
| 2/20/2017 | BIDDING | |
| 3/30/17 | PLAN CHECK | |
| 5/11/17 | PLAN CHECK REVISIONS | |
| | CONSTRUCTION DOCUMENTS | |
| , | | |

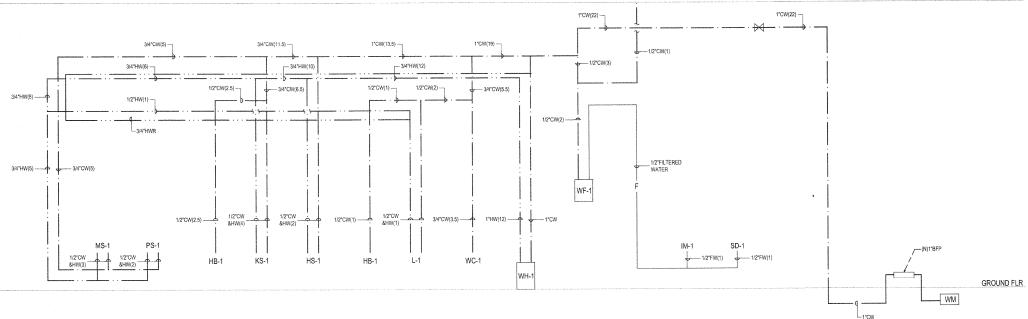
PLUMBING DETAILS

P4.1

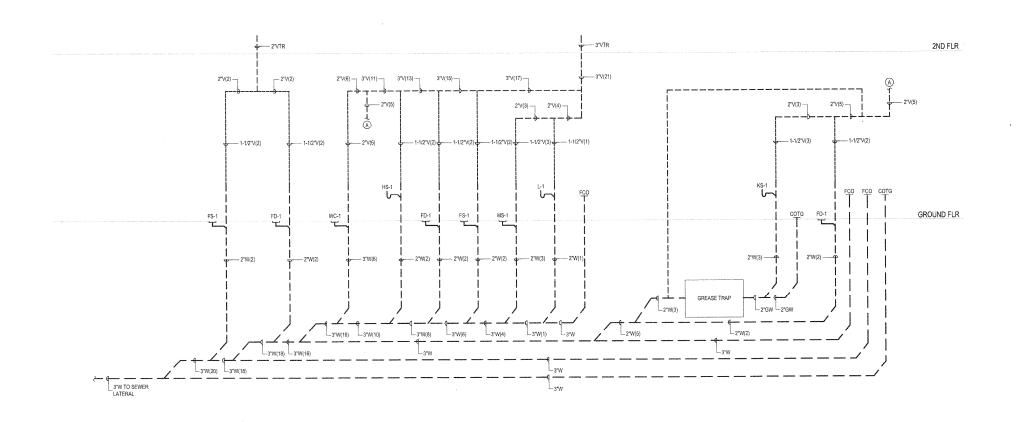


09/11/17 17BLD-0344

2ND FLOOR



WATER RISER DIAGRAM



WASTE & VENT RISER DIAGRAM

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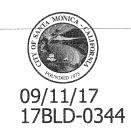




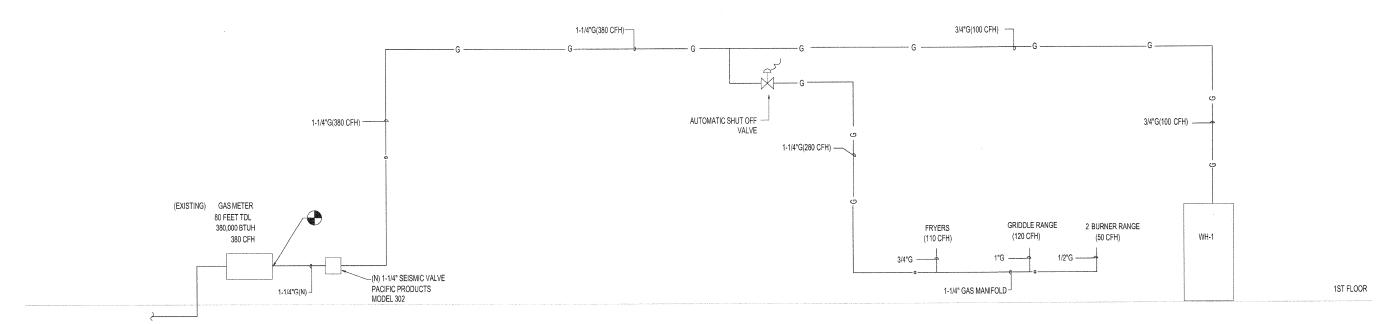
| ings CHANGES REVISIONS #1 | ARB and SCHEMATIC DESIGN | Drawings | | | | PLAN CHECK REVISIONS | CONSTRUCTION DOCUMENTS |
|---------------------------------|--------------------------|----------------------|-------------|---------|------------|----------------------|------------------------|
| November 2016 As-Built Drawings | SCHEMATIC | Consruction Drawings | REVISED ARB | BIDDING | PLAN CHECK | ECK REVISIO | UCTION DOC |

PLUMBING RISER DIAGRAM (WATER-WASTE & VENT)

P5.1



ROOF



GAS RISER DIAGRAM

SCALE: NTS

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17002-09 JOE'S GRILI

Consulting Mechanical Electrical and Plumbing Engineers (1831 S. Western Ave. Torrance, CA 90248 Tel. No. 310-576-1553 info@methrengmeering.us www.hilechenineering.us



CHANGES REVISIONS #1

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PLUMBING RISER DIAGRAM (GAS)

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P5.2